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PERSONAL.

Mr. H. S. Johnson has been elected Vice-President of the Central Ontario Ry., to succeed Mr. H. R. McIntosh.

Mr. Evans R. Dick has been elected Vice-President of the Ohio River & Charleston Ry., to succeed Mr. J. H. Sharp.

Lieut. Spencer Crosby, Corps of Engineers, U. S. Army, has been appointed Major in the United States Volunteer Engineers.

Mr. Henry Fonde has been appointed Superintendent of the Montgomery Division of the Mobile & Ohio R. R., with headquarters at Montgomery, Ala.

Mr. W. J. Hemphill has been appointed Master Mechanic of the St. Louis, Peoria & Northern Ry., with headquarters at Springfield, Ill., to succeed Mr. A. L. Moler.

Mr. Frederic J. H. Rickon, M. Am. Soc. C. E., of Little Rock, Ark., has been appointed Captain in the Second Regiment of United States Volunteer Engineers.

Mr. Melbourne S. Rogers has been appointed Superintendent of the Water-Works Department of South Bend, Ind., to succeed Mr. John A. Graham, resigned.

Mr D. W. Patrick has been elected President of the Atlantic & North Carolina R. R., with headquarters at Newbern, N. C., to succeed Mr. Robert Hancock.

Mr. S. G. Simpson, General Freight and Passenger Agent of the Puget Sound & Grays Harbor R. R., has been elected President, with headquarters at Seattle, Wash.

Mr. A. R. Ponder has been appointed General Superintendent of the St. Louis, Kennett & Southern R. R., with headquarters at Kennett, Mo., to succeed Mr. L. B. Houck.

Mr. W. F. Fox, Superintendent of Telegraph of the Minneapolis & St. Louis R. R., with headquarters in Minneapolis, Minn., has resigned owing to continued ill-health.

Mr. G. H. Groce has been appointed Superintendent of Telegraph of the Baltimore & Ohio Southwestern Ry., with headquarters in Cincinnati, O., to succeed Mr. Horace Johnson.

Mr. C. H. Sharman has been appointed Superintendent of the Wabash, Chester & Western R. R., with headquarters at Chester, Ill., to succeed Mr. J. R. Hawkins, resigned.

Mr. D. S. Newhall, Assistant Secretary of the Pennsylvania R. R., has been appointed Purchasing Agent, with headquarters in Philadelphia. Mr. Lewis Neilson has been appointed to succeed him.

Mr. G. W. Seidel has been appointed Master Mechanic of the Baltimore & Lehigh Ry., with headquarters at Baltimore, Md., to succeed Mr. W. H. Burns, formerly Foreman of Locomotive Repairs.

Capt. Harry F. Hodges, Corps of Engineers, U. S. Army, has been appointed Lieutenant-Colonel of the First Regiment of United States Volunteer Engineers, to which other appointments were noted last week.

Mr. Richard H. Hood, Assoc. M. Am. Soc. C. E., contracting engineer, with offices at 220 Broadway, New York city, has incorporated his business under the name of the R. H. Hood Co., with offices as before.

Mr. O. H. P. Cornell, Superintendent and Chief Engineer of the Chesapeake & Western Ry., with headquarters at Harrisonburg, Va., has resigned. Mr. A. P. Taliaferro has been appointed Acting Superintendent.

Mr. Halbert Powers Gillette, Assistant Engineer on the New York State Canals at Corning, N. Y., has resigned and is now the Chief Engineer of the firm of Gillette & Gillette, engineering contractors of that city.

Lieut. Robert D. Kerr, Corps of Engineers, U. S. Army, stationed at Willet's Point, N. Y., has been ordered to San Francisco, Cal., to duty under Maj.-Gen. Wesley Merritt, in the expedition to the Philippines.

Mr. John E. Shaughnessy has been appointed Purchasing Agent of the Minneapolis, St. Paul & Sault Ste. Marie Ry., with headquarters at Minneapolis, Minn., to succeed Mr. T. A. Switz, whose resignation was noted in our issue of May 26.

Mr. C. W. Taylor has been appointed Purchasing Agent of the Detroit & Lima Northern Ry., with headquarters at Tecumseh, Mich., to succeed Mr. C. H. Roser, who will continue to hold his position of Chief Engineer.

Mr. E. F. Henderson, formerly Assistant City Engineer of Berkeley, Cal., has been appointed Assistant Engineer in the Maintenance of Way Department of the San Francisco & San Joaquin Valley Ry., with headquarters at Stockton, Cal.

Mr. Robert B. C. Bement, M. Am. Soc. C. E., President of the Board of Water Commissioners of St. Paul, Minn., has resigned that position to accept an appointment as Major on the staff of General Merritt. Mr. John Wolterstorff has been appointed to succeed him.

Prof. O. P. Hood, of the Department of Engineering of the Kansas State Agricultural College, Manhattan, Kan., since 1887, has accepted an appointment as Professor of Engineering in the Michigan College of Mines, Houghton, Mich., and enters upon his duties this month.

Mr. Joseph W. Sherwood, Superintendent of the Frankfort Division of the Toledo, St. Louis & Kansas City R. R., with headquarters at Frankfort, Ind., has been appointed General Superintendent, with headquarters at Toledo, O., to succeed Mr. Arthur L. Mills, M. Am. Soc. C. E., resigned.

Mr. F. E. Rogers, Assistant Superintendent of the Bangor & Aroostook R. R., with headquarters at Brownville, Me., has resigned and the office has been abolished. Mr. W. M. Brown, Assistant Superintendent, with headquarters at Bangor, Me., has been appointed Superintendent, in charge of the entire line.

Mr. J. A. Kelly, Assistant to the General Superintendent, has been appointed Superintendent of the Northwest Division of the Chicago Great Western Ry., with headquarters at St. Paul, Minn., and Mr. R. W. Edwards has been appointed Superintendent of the Eastern Division, with headquarters at Dubuque, Ia.

Mr. Thomas Green has been appointed Acting Chief Engineer of the Minneapolis, St. Paul & Sault Ste. Marie Ry., to succeed Mr. W. W. Rich., M. Am. Soc. C. E., Chief Engineer, whose appointment as Consulting Engineer of the Imperial Chinese Railway Administration was noted in our issue of May 26.

Mr. E. E. Styner, Superintendent of the Mexico Division of the Mexican Central Ry., with headquarters at Silao, Mex., has been appointed Superintendent of the San Luis Division, with headquarters at San Luis Potosi, Mex., to succeed Mr. H. R. Cornforth. Mr. T. G. Mulhearn has been appointed Superintendent of the Mexico Division, to succeed Mr. Styner.

Civil Engineer Robert E. Peary, U. S. Navy, and M. Am. Soc. C. E., of Brooklyn, N. Y., has been awarded the gold medal of the Royal Geographical Society, of England, for his 12 years' geographical work in the Arctic regions. This medal is about 3 ins. diameter, with the arms of the Society on one side and the inscription on the other. Mr. Peary already has the medals of the Scottish Geographical Society and of the American Geographical Society; he is the only American who has received all these three medals.

Mr. William G. Ramsay, C. E., son of Lieut.-Col. J. G. Ramsay, 5th Artillery, U. S. A., was omitted in the list given in our last issue of appointments to the grade of Captain in the First Regiment of the Engineer Brigade, U. S. V. Mr. Ramsay was formerly Division Engineer on the Chesapeake & Ohio Canal, was on the Baltimore & Ohio Railway, and was engaged in levee work in Louisiana, under Major Kingman, Engineer Corps, U. S. A. He is now general agent of the Repauno Chemical Co., of New York, and is an expert in high explosives.

Mr. W. H. Smith, General Master Builder of the New York Central & Hudson River R. R., has been appointed Master Builder of the Eastern Division, with headquarters in New York city. Mr. John Hamer has been appointed Master Builder of the Middle Division, with headquarters at West Albany; Mr. W. A. Pettis has been appointed Master Builder of the Western Division, with headquarters at Rochester, and Mr. J. C. Webb has been appointed Master Builder of the Rome, Watertown & Ogdensburg Division, with headquarters at Watertown, N. Y.

Mr. James O'Donnell, Roadmaster of the St. Lawrence & Adirondack R. R., has been appointed a Roadmaster of the Middle Division of the New York Central & Hudson River R. R., with headquarters at Malone, N. Y. Messrs. A. S. Lippert and A. S. Weston, Assistant General Roadmasters, have been appointed Roadmasters of the Western Division, with headquarters at Buffalo and North Tonawanda, respectively. Mr. J. Weatherston has been appointed a Roadmaster of the Rome, Watertown & Ogdensburg Division, with headquarters at Carthage, N. Y.

Mr. Henry T. Douglas, M. Am. Soc. C. E., of Baltimore, Md., has been appointed a Brigadier General in the United States Volunteer Army. He served under Gen. Robt. E. Lee in the Confederate Army during the Civil War, and was Chief Engineer of the Trans-Mississippi Department, with rank of Lieutenant-Colonel, under Gen. Kirby Smith. After the war he engaged in railway work and was at different times Chief Engineer of the Richmond & Danville R. R., the Baltimore & Ohio system, the Louisville, Cincinnati & Lexington R. R., and the Galveston, Houston & Henderson R. R. In 1893 he was appointed Chief Engineer of the topographical survey of the city of Baltimore.

Mr. Adolphus Bonzano, M. Am. Soc. C. E., and Mr. Thomas C. Clarke, Past President Am. Soc. C. E., constituting the consulting firm of Bonzano & Clarke, since 1893, have dissolved this partnership by mutual consent. They will, however, finish all work in which they are jointly interested, and will report upon new work individually. Mr. Bonzano, with an office at 331 South 18th St., Philadelphia, is President of the Bonzano Splice Co., and will devote much of his time to promoting a new angle-bar splice, now being tested on four miles of the Pennsylvania R. R. Mr. Clarke, with an office at 127 Duane St., New York city, is consulting engineer of the Third Avenue bridge and of the Willis Avenue bridge in that city; and, with Sir Benjamin Baker, of London, he is consulting engineer for the Ottawa Navigation Co., which proposes the improvement of the Ottawa River, from Lake Huron to Montreal, at an estimated cost of $20,000,000.

OBITUARY.

Mr. S. A. Harrison, railway contractor, of Milwaukee, Wis., died June 7.

Mr. William Henry Daly, contractor and builder, of New York city, died June 11, aged 65.

Mr. Michael Kennedy, railway and canal contractor of Penetanguishene, Ont., died June 8, aged 80.

Mr. Edward L. Chapman, manager of the Grand Junction (Colo.) Electric Light Co., died there, June 6.

Mr. G. N. Dillman, of Astoria, Ore., a civil engineer on the Astoria & Columbia River R. R., committed suicide June 2.

Mr. Charles Purcell, formerly Superintendent of the Contra Costa Water Co., of Oakland, Cal., died June 5, aged 65.

Mr. George E. Bartlett, at one time Superintendent of Construction of the Fall Brook Ry., died recently at Watkins Point, N. Y., aged 74.

Mr. Frederick S. Douglas, President of the Newark & Rosendale Lime & Cement Co., of Newark, N. J., died at The Hague, Holland, June 7, aged 57.

Mr. Benjamin Tyler Henry, inventor of the Winchester rifle, the patents of which he sold to the Winchester Repeating Arms Co., New Haven, Conn., died in that city, June 8, aged 77.

Mr. Albert P. Massey, M. E., of Watertown, N. Y., died at sea, June 5, en route to London, England, aged 56. Mr. Massey had been the Mechanical Engineer of the New York Air Brake Co. since its organization.

Mr. Charles W. MacCord, Jr., mechanical engineer, and son of Prof. C. W. MacCord, of Stevens Institute of Technology, Hoboken, N. J., died in Auburn, N. Y., aged 25, of appendicitis. He graduated from Stevens Institute in 1894 and became an assistant editor of "Power." In 1897 he published a treatise on "Slide Valves," and for a year past has been with McIntosh, Seymour & Co., engine builders, of Auburn, N. Y.

Mr. William B. Howard, railway and building contractor, of Chicago, Ill., died June 10. He was born Dec. 9, 1832, in Massachusetts, and received a mechanical engineering education. In 1854 he went to Chicago and became a contractor. He built among other works the New York, Chicago & St. Louis R. R., the Indiana State Capitol, a part of the New York Croton Aqueduct, the Chicago & Illinois Canal, the La Salle St. tunnel, Chicago, and locks and dams on the Fox River, for the United States government.

Sir Robert Rawlinson, K. C. B., Past President of the Institution of Civil Engineers, died in London, England, May 31. He was born in Bristol, Feb. 25, 1810, and began life as a stonemason. At 21 years of age he entered the office of the late Jesse Hartley, engineer of the Liverpool docks, as a measurer of masonry. In 1835 he entered the service of Robert Stevenson, as Assistant Engineer on the Blisworth section of the London & Birmingham Ry. and in 1840 returned to Liverpool as Assistant City Surveyor, where he became interested in sanitary engineering and the development of sanitary science. He was engaged on the Bridgewater Canal in 1844 and in 1847 prepared plans for bringing water from Bola Lake to Liverpool. In 1848 he was appointed an inspector under the Public Health Act, and the same year, on March 7, was elected an Associate of the Institution of Civil Engineers. During the Crimean War he was sent to the camp at Sebastopol, and as a member of the Sanitary Committee, consisting besides of Drs. J. Sutherland and Hector Gavin, succeeded in changing the camp from the most wretched conditions to those of comparative healthfulness. In 1863 and 1864, during the cotton famine in Lancashire, caused by the scarcity of cotton in consequence of the Civil War in the United States, he did admirable work as Chief Engineering Inspector to the Local Government Board, planning and directing means to give employment to the idle workmen. He is said to have drained, paved and improved at this time over 400 miles of streets and roads. After holding the above position for 16 years, he retired, being promoted to K. C. B., having been knighted in 1883. He was Chairman of the Royal Commission on the Pollution of Rivers in 1866, and the same year was made a member of the Institution of Civil Engineers. During 1879 he served on a commission which inquired into the sanitary condition of Dublin and also served on the Army Sanitary Committee. He was elected President of the Institution of Civil Engineers in 1894.

ENGINEERING SOCIETIES.

COMING TECHNICAL MEETINGS.

BROOKLYN ENGINEERS' CLUB.
June 16. Secy., A. J. Provost, Jr., 191 Montague St., Brooklyn, N. Y.
ENGINEERS' CLUB OF COLUMBUS.
June 18. Secy., M. S. Hopkins, 14½ N. High St., Columbus, O.
TECHNICAL CLUB OF OMAHA.
June 20. Secy., J. Harry Lawrie, Omaha, Neb.
ENGINEERS' CLUB OF MINNEAPOLIS.
June 20. Secy., H. E. Smith, 1620 S. E. 4th St., Minneapolis, Minn.
AMERICAN RAILWAY MASTER MECHANICS' ASSOC'N.
June 20-22. Annual meeting, Saratoga, N.Y. Secy., John W. Cloud, 974 Rookery, Chicago Ill.
ENGINEERS' SOCIETY OF WESTERN PENNSYLVANIA.
June 21. Secy., R. A. Fessenden, 410 Penn Ave., Pittsburg Pa.
FRANKLIN INSTITUTE.
June 21. Secy., Wm. H. Wahl, 15 South 7th St., Philadelphia, Pa.
CIVIL ENGINEERS' CLUB OF CLEVELAND.
June 22. Secy., Wm. H. Searles, Case Library Bldg., Cleveland, O.
WESTERN SOCIETY OF ENGINEERS.
June 22. "Railway Drawbridges," William H. Finley. Secy., N. L. Litten, Monadnock Block, Chicago, Ill.
ENGINEERS' AND ARCHITECTS' ASSOCIATION OF SOUTHERN CALIFORNIA.
June 22. Secy., Frank H. Olmstead, Los Angeles, Cal.
ENGINEERING ASSOCIATION OF THE SOUTH.
June 23. Nashville, Tenn. Secy., C. B. Wilson, Nashville, Tenn.
INDIANAPOLIS ENGINEERING CLUB.
June 25. Secy., Edson F. Folsom, Indianapolis, Ind.
AMERICAN SOCIETY OF CIVIL ENGINEERS.
July 26-29. Annual Meeting, Detroit, Mich. Secy., C. W. Hunt, 220 W. 57th St., New York city.
AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS.
June 27-29. Annual Meeting, Omaha, Neb. Secy., R. W. Pope, 26 Cortlandt St., New York city.
CANADIAN ELECTRICAL ASSOCIATION.
June 28-30. Annual convention, Montreal. Secy., C. H. Mortimer, Confederation Bldg., Toronto, Can.
INTERNATIONAL MINING CONGRESS.
July 6-9. At Salt Lake City. Secy., W. D. Johnson, Salt Lake City, Utah.
AMERICAN SOCIETY OF R. R. SUPERINTENDENTS.
July 13-14. Annual meeting, Alexandria Bay, N.Y. Secy., C. A. Hammond, Asbury Park, N. J.
ENGINEERS' CLUB OF MINNEAPOLIS.
July 18. Secy., H. E. Smith, 1620 S. E. 4th St., Minneapolis, Minn.

ROCHESTER ENGINEERING SOCIETY.—A special meeting of this society was held June 8 to afford the members an opportunity to meet Messrs. E. P. North and Lyman E. Cooley, both of whom were in the city as civil engineering experts of the canal investigating commission.

FRANKLIN INSTITUTE.—At the meeting of the Institute, held June 15, Mr. Wilfred Lewis, of Wm. Sellers & Co., described a device known as an "Inertia Indicator" for determining the reaction of traveling cranes on their runways. Mr. Edwin L. Decker read a paper entitled "The Gas Composimeter," in which a new apparatus for determining the composition of furnace gases was described.

WESTERN SOCIETY OF ENGINEERS.—At the "ladies' meeting," on June 11, Prof. N. O. Whitney, of the University of Wisconsin, delivered an interesting lecture on "Three Months Among the Engineering Works of England and France," illustrated by a large number of stereopticon views. Two noticeable characteristics of the works (including railways, bridges, canals, etc.) were their permanent and substantial character, and their artistic treatment.

PHILOSOPHICAL SOCIETY.—At a recent meeting of this society, held in Washington, D. C., Mr. J. E. Watkins read a paper entitled "The Transportation and Lifting of Heavy Bodies by the Ancient Engineers." The purpose of the paper was to show how many of the structures regarded as remarkable by expert engineers of the present day, and which some archaeologists declare must have required in their erection the use of immense machines could have been constructed by primitive tools and simple methods.

CANADIAN ELECTRICAL ASSOCIATION.—The annual convention of this association will be held at Montreal June 28-30. The program so far as is known at present will be as follows:

June 28.—Executive meeting, 9.30 to 10 a. m.; session, 10 a. m. to 1 p. m.; session, 2 to 5 p. m.; 7.30 p. m.; visit to Mount Royal by special cars, later ascending Incline railway to lookout on mountain to view the city.

June 29.—Session, 9 to 12 noon; leave Windsor Hotel at 1 p. m. to visit—Bell Telephone Co., new building; Street Railway Co., power house; power house and works of the Lachine Rapids Hydraulic & Land Co.—9 p. m., annual banquet of Association at Windsor Hotel.

June 30—Session, 9 to 12 a. m., election of officers and visit to McGill University; 1.30 p. m., visit to Royal Electric Co.'s lighting station and factory, then by special train to the works of the Chambly Manufacturing Co., at Chambly.

ILLINOIS STREET RAILWAY ASSOCIATION.—The annual meeting was held at the Great Northern Hotel, Chicago, June 7 and 8, about 20 members being present, representing companies in a number of towns. The principal matter of technical interest was a paper on "The Rights of Street Railway Companies Under the Constitution," by Mr. C. L. Bonney, Vice-President of the Chicago General Ry. Co., in which it was claimed that the companies have a permanent right in their properties, regardless of the attempts of the city to impose new terms and conditions after the expiration of the franchises from the city. The basis for this claim is that the state's charter is a superior power to the city's franchise, the latter being practically a license.

Officers were elected as follows: President, W. H. Patterson, Bloomington, Ill.; Vice-President, D. B. Sherwood, Elgin, Ill.; Secretary and Treasurer, C. K. Minary, Springfield, Ill.

The next meeting will be held at Aurora, Ill., on Sept. 20.

ENGINEERS' CLUB OF PHILADELPHIA.—At the meeting of this club held on June 4 Mr. Joseph Appleton presented a paper entitled "Recent Developments in the Application of Storage Batteries," in which the use of such batteries in connection with power generation and storage was explained. The Buffalo Street Railway Co.'s installation was described and the use of batteries for regulating line voltage and supplying current to fluctuating power loads was explained. A description of the use of batteries in connection with the substitution of electricity for steam on suburban railroads was then given, showing how rapid acceleration can be obtained with a minimum amount of generating plant. Storage batteries are now coming into use in connection with large telephone exchanges, as they have marked advantages over primary batteries. Mr. Appleton then gave a general outline of the history of motor vehicles, with special reference to those employing storage batteries and electric motors, and indicated the probable future of this class of carriages. The paper concluded with a description of the storage-battery plant in the station of the Edison Electric Lighting Co. of Chicago, which is the largest storage-battery plant in the world (Eng. News, June 9, 1898).

NEW PUBLICATIONS.

RESERVOIRS FOR IRRIGATION.—By James D. Schuyler. Extract from the Eighteenth Annual Report of the Survey, 1896-'97; Part IV., Hydrography. Chas. D. Walcott, Director. Washington: Pub. Doc. Paper; 8 × 11½ ins.; pp. 617 to 740; 54 plates, 40 figures in the text and a number of tables.

This is a valuable discussion of the subject named, with many well-executed and handsome illustrations. Some of the information on rock fill dams given in the report has been abstracted for an article for our columns.

SCIENCE ABSTRACTS.—Physics and Electrical Engineering. J. Swinburne, Editor. 66 Victoria St., London, S. W., Eng. Pamph.; 6 × 9¼ ins.

This is a new publication issued under the direction of the Institution of Electrical Engineers and the Physical Society of London. The Board of Editors includes Mr. J. Swinburne, editor; Mr. W. R. Cooper, sub-editor, and 34 prominent English electricians and physicists who are included under the title of abstractors.

The publication is issued monthly, the first issue bearing the date of January, 1898, each number including some 60 odd pages. As implied in the title, the material published is abstracts of various scientific articles appearing in the important technical journals of the world. These abstracts are numbered and indices to authors and subjects are printed on the cover of each number.

The publication cannot help but be of value, as the abstractors are all men of note in their particular branch, and it is to be hoped that its life will be longer than has been the case with similar attempts in the past.

WATER-WORKS REPORTS.—The following water-works reports have been received, the names given being those of superintendents, unless otherwise stated:

Dover, N. H., Willard T. Sanborn; Keene, N. H., Paul P. Babbidge; Montpelier, Vt., Joel Foster; St. Albans, Vt., J. H. Stubbs; Metropolitan Water Board, Boston, Mass., and vicinity, F. P. Stearns, Chief Engineer; Attleborough, Mass., Wm. J. Luther; Brookline, Mass., F. F. Forbes; Cambridge, Mass., Edwin C. Brooks; Fall River, Mass., Patrick Kieran; Lynn, Mass., John C. Haskell; Methuen, Mass., J. Alfred Welch; New Bedford, Mass., R. C. P. Coggeshall; Northampton, Mass., L. C. Wright; Reading, Mass., Lewis M. Bancroft; Springfield, Mass., J. C. Hancock; Taunton, Mass., Geo. F. Chace; Middletown, Conn., J. C. Broatch; Norwich, Conn., R. S. Bartlett; South Norwalk, Conn., Chas. S. Trowbridge, Commissioner; Albany, N. Y., Geo. I. Bailey; Little Falls, N. Y., S. E. Babcock, City Engineer; Newburgh, N. Y., Curtis Stanton; Poughkeepsie, N. Y., Chas. E. Fowler; Schenectady, N. Y., Geo. T. Ingersoll; Troy, N. Y., Edw. Dolan; Yonkers, N. Y., A. W. Kingsbury, Acting Clerk; Atlantic City, N. J., W. C. Hawley; Bridgeton, N. J., Timothy Woodruff; Vineland, N. J., Reports on Municipal Improvements, Alex. Potter, 137 Broadway, New York city, Consulting Engineer; Bradford, Pa., S. D. Heffner; McKeesport, Pa., Edwin Soles; Palmyra Filtrated Water Co., proposed supply for Philadelphia, Jos. H. Young, Secretary and Engineer, 13th and Arch Sts., Philadelphia; Reading, Pa., Report on Filtration, Emil Nuebling, Superintendent, Allen Hazen, 120 Broadway, New York city, Consulting Engineer; Wilmington, Del., J. P. Bond, Chief Engineer; Washington, D. C., Operations of the Engineer Department, Capt. W. M. Black, Corps of Engineers, U. S. A., Commissioner; Augusta, Ga., Nisbet Wingfield, Commissioner of Public Works, Chas. A. Maxwell, Superintendent; Jacksonville, Fla., R. N. Ellis; New Orleans, La., L. H. Gardner; Cincinnati, O., Trustees New Water-Works, G. Bouscaren, Chief Engineer; Cleveland, O., M. W. Kingsley; Columbus, O., Report on Storage Dam, Julian Griggs, Chief Engineer Board Public Works; Oberlin, O., W. B. Gerrish; Wyoming, O., John W. Hill, President Trustees; Battle Creek, Mich., W. W. Brigden; Bay City, Mich., E. L. Dunbar; Detroit, Mich., L. N. Case, Superintendent, G. S. Williams, Civil Engineer; Winnetka, Ill., F. E. Herdman, Chairman Water Committee; Mankato, Minn., J. R. Thompson, Engineer Board Public Works; St. Paul, Minn., John Caulfield, Secretary; Hamilton, Ont., Ernest G. Barrow, City Engineer; Victoria, B. C., Jas. L. Raymur, Commissioner.

TRADE PUBLICATIONS.

(The standard sizes for pamphlets and trade catalogues recommended by all the principal engineering societies of the United States are: 3 1-2 x 6 ins.; 6 x 9 ins., and 9 x 12 ins.)

TRACK TOOLS.—Andrew Warren Railway Supply Co., St. Louis, Mo. Paper; 3½ × 5⅞ ins.; pp. 16.

The tools illustrated in this little pamphlet include different forms of track drills, gages, jacks, etc.

PAINTS.—National Paint Works, Williamsport, Pa. Double-page folders; 4 × 5 ins.

Each folder is devoted to one particular kind of paint, and has attached to it a slip of metal coated with paint in question. The four now before us show the graphite, carbon, red lead and "metal-protector" paints.

SNOW-PLOWS AND FLANGERS.—The Russell Snow-Plow Co., Boston, Mass. Pamph.; 9 × 6 ins.; pp. 28; illustrated.

This pamphlet illustrates and describes briefly the single and double-track snow-plows, combined flangers and snow-plows, and adjustable flangers manufactured by the above-named company.

STEAM ENGINES.—St. Louis Steam Engine Co., St. Louis, Mo. Paper; 6¼ × 3½ ins.; pp. 16.

The Star engine is of the vertical, inverted type, and is shown coupled to an air compressor of similar design. There is also a steeple type air compressor having two engines on the same bedplate, with the air cylinders directly above the steam cylinders.

A CONTINUOUS RECORDING ENGINE INDICATOR.—W. G. Little, Bexley, Kent, England. Pamph.; 6½ × 8⅝ ins.; pp. 22.

This pamphlet explains the principle, construction and working of a new form of engine indicator, which continuously records the power developed, thus eliminating a large amount of work and possibility of error in engine testing.

FORGING, UPSETTING AND BENDING MACHINES.—The Ajax Manufacturing Co., Cleveland, O. Cloth; 7½ × 4¾ ins.; pp. 115.

This book illustrates the Blakeslee bolt and rivet headers, bending, forming, upsetting, "bulldozing" and general forging machines, hot pressed nut machines, etc. It also has sketches of a great variety of forged shapes which are made by the machines.

HUNTING AND FISHING ON THE LEHIGH VALLEY.—Passenger Department, Lehigh Valley R. R., New York, N. Y. Pamph.; 4¼ × 8¼ ins.; pp. 34; illustrated.

This pamphlet, as its title implies, is a descriptive guide-book of the hunting and fishing grounds in New York, Pennsylvania and New Jersey which are reached by the lines of the Lehigh Valley R. R. The pamphlet will be sent to persons interested by Mr. Chas. S. Lee, General Passenger Agent, 26 Cortlandt St., New York.

BRISTOL'S RECORDING INSTRUMENTS.—The Bristol Co., Waterbury, Conn. Circular; 9 × 11¾ ins.

This is a circular describing the several forms of recording instruments manufactured under the trade name of "Bristol." Originally these were for use in connecting steam or hydraulic plants, but the company has developed new forms, including vacuum gages, thermometer gages, voltmeters, ammeters and watt-meters, for direct and alternating currents which are here illustrated.

SUMMER EXCURSIONS BY THE FITCHBURG R. R.—Passenger Department, Fitchburg R. R., Boston, Mass. Pamph.; 4 × 8 ins.; pp. 98; illustrated.

This is a well-indexed descriptive list of the excursions to and from eastern pleasure resorts which are presented by the Fitchburg R. R. lines. The various watering places, camping grounds and other holiday resorts are described and illustrated by half-tone engravings, and full lists and rate cards of the best hotels and boarding houses are given.

SIDEWALK AND VAULT ROOF.—P. H. Jackson & Co., San Francisco, Cal. Photograph; 7 × 5 ins.; printed matter on back.

This is a photograph taken under the sidewalk in daylight emitted through the bulls-eye lights above, showing the bottom surface or finished ceiling of the above-named firm's "Patent Combined Artificial Stone Sidewalk and Galvanized Steel Roof of Vault Construction." This roof has a strength of 2,000 lbs. per sq. ft. and is 4 ins. thick. It is stated that about 135,000 sq. ft. of this roofing has been constructed.

GARBAGE CREMATORIES.—The Smead Cremating & Power Co., Toledo, O.; Fred. J. Kelley, Agent, 62 Broad St., Brooklyn, N. Y. Paper; 5 × 7 ins.; pp. 15.

This pamphlet describes a new garbage furnace, now being used experimentally at Toledo, O. The garbage is dumped into a horizontal cylinder from which a piston forces it through an underfeed into the furnace. The furnace is at the base and is an enlargement of the chimney. Air blasts are used to assist combustion. A boiler is placed in the chimney, above the furnace, which it is said will generate power to drive the piston and blower. Slack coal is fed into the cylinder with the garbage.

AUTOMATIC RAILWAYS—CABLE RAILWAYS.—C. W. Hunt Co., 45 Broadway, New York. Two pamphlets; 6¾ × 9¼ ins.; pp. 24, 18.

The Hunt automatic railway is used chiefly for conveying coal in a car running on an elevated track, from a boat at a wharf, or from a dump-car, and dumping it in a storage pile. The coal is hoisted and dumped into the car by an attendant; the car then runs down the track, dumps its load at the desired point, and automatically runs back to the loading point. The motive power is gravity; the loaded car as it runs down grade raising a heavy weight a short distance, which, in turn acts on the empty car and gives it an impulse up grade, the momentum acquired by the car then causing it to return to the starting point. These automatic railways have been in use 27 years, and

have been installed in all parts of the world. The cable railways described in the second pamphlet are also used for handling coal and heavy merchandise. Illustrations of many different styles are given.

MATHEMATICAL AND SURVEYING INSTRUMENTS.—A. S. Aloe Co., St. Louis, Mo. Cloth; 4½ × 6¾ ins.; pp. 212; paper; 3⅝ × 5¾ ins.; pp. 24.

The larger publication is a comprehensive catalogue and price list of surveying instruments, engineers' supplies, drawing materials, etc., etc., including Ockerson's device for printing conventional signs on maps, Ritter's perspectograph for drawing perspective mechanically, and Rice's earthwork tables. The small pamphlet is devoted to tapes and rules. One of the specialties is a brand of tracing cloth, the surface of which is not greasy and which is specially adapted for tracing fine line drawings.

RECENT BALDWIN LOCOMOTIVES.—Baldwin Locomotive Works, Philadelphia, Pa. Pamph.; 9 × 6 ins.; pp. 32; illustrated.

This is No. 5 of the pamphlet "Records of Recent Construction" published by the firm named, and it contains illustrations and tables of principal dimensions of twelve locomotives of various types built to both American and foreign orders. One of these engines, a two-cylinder compound consolidation locomotive, constructed for the Norfolk & Western Ry., is described by several pages of text and a number of line drawings showing the cylinder and steam chest construction in addition to the usual half-tone view and table of dimensions.

CONSTRUCTION NEWS.

CONDENSED LIST OF CONTRACTS PENDING WITH DATE OF OPENING BIDS.

Bids to be opened.	Work.	Place.	See Eng. News.
June 16.	Levee work	New Orleans, La.	June 2
June 16.	Sewers (4 miles)	North Tarrytown N. Y.	June 2
	Advertised, Engineering News, June 2.		
June 16.	Steel bridges (2)	Towanda, Pa.	June 2
June 16.	Ice plant	Dayton, O.	June 2
June 16.	Paving, curbing, etc.,	Owasso, Mich.	June 2
June 16.	Army buildings	New London, Conn.	May 26
June 16.	School building	Onslow, Ia.	May 26
June 16.	Iron bridges (4)	Mercer, Pa.	May 26
June 16.	Paving	Owasso, Mich.	May 26
	Advertised, Eng. News, May 26 and June 2.		
June 16.	Pipe sewers	Buffalo, N. Y.	June 9
June 16.	Bonds	Avalon, Pa.	June 9
June 16.	Hospital building	Binghamton, N. Y.	June 9
June 16.	Grading, etc.,	Wilton, Conn.	June 9
June 16.	Paving	Norwich, N. Y.	June 9
	Advertised, Engineering News, June 9.		
June 16.	Brick paving	Carnegie, Pa.	June 9
June 16.	Cement walk	Windham, Conn.	June 16
June 16.	Paving	Detroit, Mich.	June 16
June 17.	Sewers	Paterson, N. J.	June 16
June 17.	Asphalt paving, (1 street)	Saginaw Mich.	June 9
June 17.	Electric lighting	Sea Isle City, N. J.	June 9
June 17.	Bridge	Newaygo, Mich.	June 9
	Advertised, Engineering News, June 9.		
June 17.	Water pipe, castings, etc.,	Saginaw, Mich.	June 9
June 17.	Masonry subway	Newark, N. J.	June 9
	Advertised, Engineering News, June 9.		
June 17.	Bridge (125 ft. long)	Delaware, O.	June 9
June 17.	Sewer soundings	Lansdowne, Pa.	June 9
	Advertised, Engineering News, June 9.		
June 17.	Sewers	Cambridge Springs, Pa.	June 2
June 17.	Court house	Savannah, Mo.	June 2
June 17.	Court house	Hillsdale, Mich.	June 2
June 18.	Water bonds ($25,000)	Monrovia, Cal.	June 2
June 18.	Asphalt paving	Zanesville, O.	May 26
June 18.	Street work	Marietta, O.	May 26
June 18.	Electric light plant	Fitzgerald, Ga.	May 5
June 18.	Water-works, etc.,	Fitzgerald, Ga.	May 5
June 18.	Gravel road	Valparaiso, Ind.	June 9
June 18.	Passenger elevator	Danville, Ill.	June 9
June 18.	Plumbing, heating, etc.,	Danville, Ill.	June 9
June 18.	Park work	New York, N. Y.	June 9
June 18.	Street sprinkling	Evansville, Ind.	June 9
June 18.	Brick paving, etc.,	Cleveland, O.	June 9
June 18.	Ditches (2)	Wapakoneta, O.	June 16
June 18.	Bridge	Dumfries, Ont.	June 16
June 18.	Brick paving, etc.,	Johnstown, N. Y.	June 16
	Advertised, Engineering News, June 16.		
June 18.	Road work (7 miles)	Blountville, Tenn.	June 16
June 18.	Heating, etc.,	Springfield, Mass.	June 16
June 20.	Engine, boilers, etc.,	Elk Point, S. Dak.	June 16
June 20.	Sewer bonds	Hackensack, N. J.	June 16
June 20.	School building repairs	New York, N. Y.	June 16
June 20.	School building	Wausau, Wis.	June 16
June 20.	School building, etc.,	Hankinson, S. Dak.	June 16
June 20.	Brick paving, etc.,	Albany, N. Y.	June 16
June 20.	Street bonds	Hackensack, N. J.	June 16
June 20.	Street washers	Indianapolis, Ind.	June 16
June 20.	Paving	Toronto, Ont.	June 16
June 20.	Reservoir	Winnebago City, Minn.	June 16
June 20.	Electric lighting	Westbrook, Me.	June 16
June 20.	Sewers	Darby, Pa.	June 16
June 20.	Sewage disposal beds	East Bristol, Conn.	June 16
June 20.	Pipe sewers	Albany, N. Y.	June 16
June 20.	Improving creek	Tiffin, O.	June 9
June 20.	Laying water pipe	Brookline, Mass.	June 9
	Advertised, Engineering News, June 9.		
June 20.	Refrigerator	New York, N. Y.	June 9
June 20.	Building road	Clinton, Mass.	June 9
	Advertised, Engineering News, June 9.		
June 20.	Electric light franchise	Odell, Ill.	June 9
June 20.	Bridge abutments	Lebanon, O.	June 9
June 20.	Water-works	Fertile, Minn.	June 9
June 20.	Pumping franchise	Odell, Ill.	June 9
June 20.	Surface condenser, etc.,	Asbury Park, N. J.	June 9
	Advertised, Eng. News, June 9 and 16.		
June 20.	Pumping engine	Perth Amboy, N. J.	June 9
June 20.	Steel fixtures	Mount Vernon, O.	June 9
June 20.	Street work	Canton, O.	June 9
June 20.	Water-works bonds	Prescott, Ariz.	May 26
June 20.	Bonds	Berea, O.	May 26
June 20.	Cleaning streets	Washington, D. C.	May 26
June 20.	Light station	Oswego, N. Y.	May 26
June 20.	School building	Glenville, O.	June 2
June 20.	Water tank	Yankton, S. Dak	June 2
June 20.	Macadamizing	Morristown, N. J.	June 2
June 21.	Electric light plant	Wellington, O.	June 2
	Advertised, Eng. News, June 2 to 16.		
June 21.	Hospital building	Sandusky, O.	June 2
June 21.	Brick paving	De Kalb, Ill.	June 2
	Advertised, Eng. News, June 2 and 9.		
June 21.	Water bonds ($3,000)	Greenwich, O.	May 26
June 21.	Park conservatory	Milwaukee, Wis.	June 9
June 21.	School building	Sherburne, Minn.	June 9
June 21.	Water bonds ($5,000)	Delphos, O.	June 9
June 21.	Light bonds	Elkhorn, Wis.	June 16
June 21.	Street work	Cadillac, Mich.	June 16
June 21.	Water pipe	Morgan Park, Ill.	June 16
June 21.	Asphalt paving	Louisville, Ky.	June 16
June 21.	School buildings	Detroit, Mich.	June 16
June 22.	Light-house	Tompkinsville (S. I.), N. Y.	June 16
	Advertised, Engineering News, June 16.		
June 22.	Pipe sewers	Tamaqua, Pa.	June 16
	Advertised, Engineering News, June 16.		
June 22.	Elevators	Toronto, Ont.	June 16
June 22.	Ice plant	National Soldiers' Home, Va.	June 16
June 22.	Water pipe (250 tons)	Atlanta, Ga.	June 16
	Advertised, Engineering News, June 16.		
June 22.	Brick paving and curb	Meadville, Pa.	June 9
June 22.	Buildings	Lawrence, Kan.	June 9
June 22.	Street work	Hoboken, N. J.	June 9
June 22.	Masonry substructure	Youngstown, O.	May 26
June 22.	Reformatory building	Mansfield, O.	May 26
June 22.	Garbage bonds, etc.,	Milwaukee, Wis.	May 26
June 22.	Water-works, etc.,	Wellington, O.	June 2
	Advertised, Eng. News, June 2 to 16.		
June 22.	Sewerage system	Concord, Mass.	June 2
	Advertised, Eng. News, June 2 and 9.		
June 22.	Bridge	Youngstown, O.	June 2
June 23.	Pier, dredging, etc.,	Cleveland, O.	May 26
	Advertised, Eng. News, May 26 to June 16.		
June 23.	Post office building	San Francisco, Cal.	May 26
June 23.	Hospital buildings	Massillon, O.	June 2
June 23.	Paving, etc.,	Lima, O.	June 2
June 22.	Macadamizing, etc.,	Hartford, Conn.	June 16
June 23.	Bridge	Honolulu, H. Islds.	June 16
June 23.	Iron superstructure	New Philadelphia, O.	June 16
June 23.	Pipe sewers	Waterbury, Conn.	June 16
June 23.	Laundry building, etc.,	Gowanda, N. Y.	June 16
June 23.	Paving material	Lock Haven, Pa.	June 16
June 23.	Brick paving, etc.,	Lima, O.	June 16
	Advertised, Engineering News, June 16.		
June 23.	Valves, pipe, castings, etc.,	Buffalo, N. Y.	June 16
June 23.	Water-works	Minden, Ia.	June 16
	Advertised, Enginering News, May 26.		
June 23.	Paving	Nanticoke, Pa.	June 16
June 23.	Asphalt paving	Newark, N. J.	June 16
June 23.	Paving, etc.,	Pittsburg, Pa.	June 16
June 24.	School building	San Diego, Cal.	June 2
June 24.	Bridge	Cleveland, O.	June 2
June 24.	Tow-boat service	St. Louis, Mo.	June 2
June 24.	Brick paving (10,000 sq.yds.)	Lima, O.	May 19
June 24.	Hire of dredge	New Orleans, La.	June 9
June 24.	Paving, curbing, etc.,	Ravenna, O.	June 9
June 25.	Bridge	Alexandria, S. Dak.	June 9
June 25.	Sewers	Youngstown, O.	June 9
June 25.	Grading, curbing, etc.,	Evansville, Ind.	June 9
June 25.	Railway bridge	Chicago, Ill.	May 12
	Advertised, Eng. News, May 12 and 19.		
June 25.	Electric plant	Atlanta, Ga.	June 2
June 25.	Improving road	Cincinnati, O.	June 2
June 25.	School building	Cleveland, O.	June 2
June 25.	Bonds	Bird Island, Minn.	June 16
June 25.	Pumping station	Norwalk, O.	June 16
	Advertised, Engineering News, June 16.		
June 25.	Macadamizing	East Hartford, Conn.	June 16
June 25.	Macadam road	Plainfield, Conn.	June 16
	Advertised, Engineering News, June 16.		
June 25.	Macadam road	Vernon, Conn.	June 16
June 26.	Macadamizing	Greencastle, Ind.	June 16
June 27.	Bridges (3)	Caldwell, Idaho	June 16
June 27.	Elect. supplies, etc.,	Los Angeles, Cal.	June 16
June 27.	Pipe sewers, (12,565 ft.)	Mercer, Pa.	June 16
	Advertised, Eng. News, June 16 and 23.		
June 27.	Paving	Toledo, O.	June 2
June 27.	Pipe sewers	South Bend, Ind.	June 2
June 27.	Sidewalks, grading, etc.,	South Bend, Ind.	June 2
June 27.	Iron bridges (4)	Monticello, Ind.	June 9
June 27.	City hall plans	Barre, Vt.	June 9
June 27.	Street bonds	Bowling Green, O.	June 9
June 27.	Hospital building work	Brooklyn, N. Y.	June 16
June 27.	Weirs boulevard	Laconia, N. H.	June 16
June 28.	Macadam road	Manchester, Conn.	June 16
June 28.	Steel drawbridge	Tuckahoe, N. J.	June 16
June 28.	Bridge	Columbus, O.	June 9
June 28.	School bonds	Mount Vernon, O.	June 9
June 28.	Laying water mains	New London, Conn.	June 9
	Advertised, Engineering News, June 9.		
June 28.	Water bonds, etc.,	Jackson, Mich.	June 9
June 28.	Gravel roads (4 miles)	Indianapolis, Ind.	June 2
June 28.	Brick paving (12,000 sq.yds.)	Warren, O.	June 2
June 28.	Dredging, etc.,	Boston, Mass.	June 16
	Advertised, Engineering News, June 16.		
June 29.	Pipe sewer, etc.,	Meadville, Pa.	June 16
	Advertised, Engineering News, June 16.		
June 29.	Water-works	Listowel, Ont.	June 16
June 29.	Brick paving	Meadville, Pa.	June 16
	Advertised, Engineering News, June 16.		
June 29.	Extending water mains	Aberdeen, Wash.	June 16
June 29.	U. S. Dep. work	Kansas City, Mo.	June 2
	Advertised, Eng. News, June 2 and 9.		
June 29.	Paving	Warren, O.	June 2
June 29.	River work	Chicago, Ill.	May 12
	Advertised, Eng. News, May 12 and 19.		
June 29.	Building work	Kansas City, Mo.	June 9
June 29.	Electric light plant	Huron, O.	June 9
	Advertised, Eng. News, June 9 and 16.		
June 29.	Brick paving	Pana, Ill.	June 16
June 29.	Steel bridge	Camden, N. J.	June 16
	Advertised, Eng. News, June 16 and 23.		
June 30.	Hospital building	Fort Snelling, Minn.	June 9
June 30.	Excavating, etc.,	Admiralty Head, Wash.	June 9
June 30.	Steel floor beams, etc.,	Cheyenne, Wyo.	June 9
June 30.	Gas apparatus	New York, N. Y.	June 9
June 30.	School building	Zanesville, O.	June 2
June 30.	Lamps	Mansfield, O.	June 16
June 30.	Stand-pipe	Seattle, Wash.	June 16
July 1.	School building	Paducah, Ky.	June 16
July 1.	Bonds	Toledo, O.	June 16
July 1.	School building	Aberdeen, S. Dak.	June 16
July 1.	Water power	Madras, India.	Oct. 28
July 1.	Plans for sewer system	Formby, Eng.	Apr. 7
July 1.	Plans for sewer system	Cohoes, N. Y.	Apr. 28
	Advertised, Eng. News, Apr. 28 and May 5.		
July 1.	Power plant	Sault Ste. Marie, Mich.	May 26
	Advertised, Eng. News, April 14 to 28.		
July 1.	Bridges (3)	Columbus, O.	June 9
July 1.	Stone arch culvert	Cleveland, O.	June 9
July 1.	Street work	St. Louis, Mo.	June 9
July 1.	Stone bridge	Niagara Falls, N. Y.	June 16
July 2.	School building	Mount Vernon, O.	June 9
July 2.	Brick paving	Canton, O.	June 9
July 2.	Water-works	Summit, Miss.	May 19
July 2.	Sewer	Aurora, Ind.	June 16
July 2.	Gun carriages	Washington, D. C.	June 16
July 2.	Light bonds	New London, O.	June 16
July 5.	Sewage disposal plant	Lancaster, O.	June 16
July 5.	Water-works, etc.,	Lancaster, O.	June 16
July 5.	Sewers	Jefferson City, Mo.	June 16
July 5.	Drainage work	Cornwall, Ont.	June 16
July 5.	Water-works	Ogden, Ia.	June 16
July 5.	Water supply	Guthrie, Okla.	June 16
July 5.	Steam heating plant	Lancaster, O.	June 9
July 5.	Dredging in Delaware River	Pa.	June 9
	Advertised, Eng. News, June 9 to 30.		
July 5.	Iron bridges (4)	Elkton, Md.	June 9
July 5.	Iron bridge	Wauseon, O.	June 16
July 6.	Locktenders' dwellings	Louisville, Ky.	June 9
July 6.	Plumbing, etc.,	Cleveland, O.	June 16
July 6.	Gravel road	Freehold, N. J.	June 16
July 6.	Levee work	Memphis, Tenn.	June 16
	Advertised, Eng. News, June 16 to 30.		
July 6.	Electric lighting	Wooster, O.	June 16
July 7.	Drainage work	Cornwall, Ont.	June 16
July 7.	Tow-boat service	Cincinnati, O.	June 16
July 7.	Jail building	Irwinville, Ga.	June 16
July 7.	Brick paving, etc.,	Lima, O.	June 16
	Advertised, Eng. News, June 16 to 30.		
July 7.	Iron or steel bridge	Kingfisher, Okla. Ter.	May 19
July 8.	Bridge	Roseburg, Ore.	June 2
July 8.	Bridges (2)	Farman, N. Dak.	June 9
July 8.	Steel bridge	Aberdeen, S. Dak.	June 16
July 9.	Street improvement supplies	Washington	June 16
	Advertised, Engineering News, June 16.		
July 9.	Brick paving, etc.,	Cleveland, O.	June 16
July 9.	Water-works	Morris, Minn.	June 16
July 9.	School buildings	Dayton, O.	June 9
July 9.	Substructure, etc.,	Cincinnati, O.	June 16
July 9.	Asphalt paving	Washington, D. C.	June 16
	Advertised, Engineering News, June 16.		
July 9.	Highway work	Wapakoneta, O.	June 16
July 10.	School building	Rush City, Minn.	May 26
July 11.	Bridge	Breckenridge, Minn.	May 19
July 11.	Paving	Salem, O.	June 16
July 11.	Paving	Toledo, O.	June 16
July 12.	Bridge and material	Moscow, Idaho.	June 16
July 13.	Steel bridge	Brookings, S. Dak.	June 9
July 14.	Gas lamps (300)	Ironton, O.	June 16
July 14.	Electric lighting	Ironton, O.	June 16
July 15.	Electric plant	Lamar, Colo.	May 5
July 15.	Electric plant	Gaylord, Minn.	June 16
	Advertised, Eng. News, June 16 and 23.		
July 16.	Brick sewer, etc.,	Muscatine, Ia.	June 16
July 20.	Bridges, etc. (11)	Chicago, Ill.	June 2
	Advertised, Engineering News, June 2.		
July 20.	Embankment, etc.,	Lemont, Ill.	June 2
	Advertised, Engineering News, June 2.		
July 20.	Capitol building plans	Phoenix, Ariz.	June 2
July 20.	Heat regulating system	Athens, O.	June 9
July 25.	Water-works	Winnipeg, Man.	June 2
	Advertised, Eng. News, June 2 to 23.		
Aug. 2.	Steel rails	Ottawa, Ont.	June 16
Aug. 8.	Water pipe, etc.,	Winnipeg, Man.	June 16
	Advertised, Eng. News, June 16 to 30.		
Aug. 15.	Exhibition bldg. plans	Glasgow, Scotland.	June 2
Aug. 23.	Water pipe	Coolgardie, West Australia.	June 2
Aug. 31.	Custom house	Guayquil, Ecuador.	Apr. 21
Aug. 31.	Plans for station, etc.,	Stockholm, Sweden.	June 2
Sept. 12.	Hospital plans	San Francisco, Cal.	Mar. 24
Oct. 24.	Markets, etc.,	Belem, Brazil	Apr. 28
Oct. 30.	School building	Chehalis, Wash.	June 16
No date.	Stone paving	Lyons, N. Y.	June 16
"	Brewery	Dubuque, Ia.	June 16

RAILWAYS.

ATCHISON, COLORADO & PACIFIC.—This company has been reorganized with a capital stock of $4,500,000, according to reports, to operate a line from Waterville to Lenora, Kan., with the right to extend northward from Lenora, and from Waterville to Topeka. Among the incorporators are T. Jefferson Coolidge, Jr., Boston, Mass.; J. W. Gleed, E. F. Ware, and P. I. Bonebrake, of Topeka, Kan.

BUFORD & LAWRENCEVILLE.—This company has been incorporated in Georgia, according to reports, with a capital stock of $30,000, to construct a railway from Buford to Lawrenceville, Ga., a distance of 15 miles. C. L. Allen, Geo. L. Brogdon, H. L. Shadburn and others are incorporators.

CANADA.—Bids are asked until Aug. 2 for the supply of 1,000 tons of 50-lb. steel rails and fastenings to be delivered c. i. f. on the Prince Edward Island Ry. wharf at Summerside, P. E. I.; also for 5,000 tons of 80-lb. steel rails and fastenings to be delivered on the Intercolonial Ry. wharf, at St. John, N. B. All the above to be delivered in April, 1899. L. K. Jones, Secy. Dept. of Railways and Canals, Ottawa, Ont.

CANADIAN PACIFIC.—Foley Bros., Gilfillan Block, St. Paul, Minn., inform us that the contractors for constructing the entire Boundry Creek Line branch of the Canadian Pacific Ry., from Robson to Midway, B. C., 105 miles, are Mann, Foley Bros. & Larson, with headquarters at Robson, B. C. Work is now being let at Robson; it is extremely heavy, requiring much rock work. W. F. Tye, Ch. Engr., Trail, B. C.

CAPE FEAR & NORTHERN.—J. M. Bandy, Ch. Engr., Greensboro, N. C., informs us that 20 miles of this proposed railway have been located, and the profile of the same is now being prepared. The right of way and the capital necessary for construction have been secured. As soon as the profile is made and estimates completed, which will be within several days, contracts will be awarded; it is expected to begin grading by about July 1. The proposed route is from Apex, via Holly Springs, N. C., for a distance of 50 or 60 miles south into Harnett county. G. B. Alford, Pres., Holly Springs, N. C.; J. C. Angier, Business Mgr., Carney, N. C.

CLEVELAND, CINCINNATI, CHICAGO & ST. LOUIS.—Reports state that this company is lengthening its sidetracks between Indianapolis and Cincinnati, O., 110 miles, to enable it to establish a positive block system. The improvements are made with a view to making the sidetracks part of a second track. G. W. Kittredge, Ch. Engr., Cincinnati, O.

COAST RY. OF NOVA SCOTIA.—L. H. Wheaton, Ch. Engr. and Supt., Yarmouth, N. S., informs us that no improvements are projected on the completed line, but that surveys are now in progress for the extension from Lockeport to Halifax, N. S., two parties now being in the field between Liverpool and Halifax. Grading is progressing between the 34th and 51st miles, and masonry is about one-half completed on that portion. The station and roundhouse, which it is expected to build at Yarmouth, will now probably not be built before next season. It is reported that J. H. Townsend & Co., of East Pubnico, N. S., are now at work building 20 miles of the line from East Pubnico to Lockeport. Further information regarding route, etc., may be found in our issue of March 17.

ESCANABA RIVER.—W. E. Wells, Supt., Wells, Mich., informs us that between May 18 and June 7, about six miles of the right of way were cut and two graded on this proposed line from Escanaba to Republic, Minn., 60 miles, which is to be used to open up a large tract of hard wood and farming lands. The company will do all of the work, except some small contracts which will be let to station men. Pres., Q. Stephenson, Marinette, Wis.; Ch. Engr., F. J. Merriam, Gladstone, Mich.

FORT WAYNE DELPHI & PEORIA.—This company has been incorporated in Indiana, with a capital stock of $25,000, to construct 250 miles of railway from Fort Wayne, Ind., to Peoria, Ill. John Vanetta, of Brookston, Ind., is the chief promotor.

GILA VALLEY, GLOBE & NORTHERN.—A. C. Laird, Secy., Los Angeles, Cal., writes us that the Midland Construction Co., 313 Stimson Block, Los Angeles, the general contractor, has graded about 25 miles and laid track on

about 15 miles of the proposed extension of this railway from Geronimo to Globe, via San Carlos, Ariz., which is to be 58 miles in length when completed. Ward & Courtney, of El Paso, Tex., are the sub-contractors. Pres., William Garland, 313 Stimson Block, Los Angeles; Ch. Engr., E. A. Cutter, Bonita, Ariz.

GULF, CHICKASAW & KANSAS.—This company has been incorporated in Kansas, according to reports, to construct a railway from Peru, Kan., to Galveston, Tex., a distance of about 550 miles. The directors are: Ben. S. Henderson, I. C. True and M. P. Freligh, of Kansas City, Kan.; G. W. Fitzpatrick, George I. Walls, C. R. Martin and S. C. Douglas, of Kansas City, Mo. The company will be capitalized at $1,500,000.

HONDURAS.—Press reports state that the construction party of the Honduras Ry. has practically ceased work for the present, owing to the difficulty of securing a sea freight through the Caribbean Sea. The surveying party is, however, still on the field and is expected to arrive at Comayagua in about 50 days. Once the line reaches this point it is thought that the tobacco, rice and sugar exports will become an important factor in foreign markets. Geo. H. Thomson, Consulting Engr., 51 East 44th St., New York.

JONESBORO, LAKE CITY & EASTERN.—W. H. Stevens, Audr., Jonesboro, Ark., informs us that the survey has been completed for the extension of this line east of Lake City to Leachville, a distance of 15 miles. The right of way has been cut, the grading begun and the bridge across St. Francis River is almost completed. Pres., J. E. Jones; Ch. Engr., C. M. Ferguson, both of Jonesboro.

LAKE ERIE & DETROIT RIVER.—Owen McKay, Engr., Windsor, Ont., informs us that new terminal improvements are being made to this line at Port Stanley, including 4,200 ft. of new sidings. Flook & Babcock are now building a slip dock at Port Stanley for a ferry to be operated across Lake Erie from Conneaut; estimated cost, $50,000.

LOGANSVILLE & LAWRENCEVILLE.—We are informed that the grading of this branch of the Seaboard Air Line, from Logansville to Lawrenceville, Ga., 10 miles, is fairly under way, and will be completed by Aug. 1. It is expected that track will be laid and the line will be in operation about Sept. 1. Contractors, A. & C. Wright & Co., Lawrenceville, Ga.

MEXICAN INTERNATIONAL.—Press reports state that this company has directed that the work of constructing the branch of the line from Durango to Guadalajara be begun at once. Over 2,000 men are employed in building the extension of the system from Durango to Mazatlan, on the Pacific coast. Pres., Thos. H. Hubbard, 23 Broad St., New York.

PINE BLUFF & ARKANSAS RIVER.—H. E. Martin, Gen. Mgr., Pine Bluff, Ark., informs us that this company is changing its line from narrow to standard gage, and that work is expected to be completed by July 15.

WASHINGTON.—Bids were asked until June 15 for the construction of seven miles of railway in Pierce county, including clearing, grading, bridging and track-laying. Address H. W. McNeill, Colonsay, Seattle, Wash.

STREET AND ELECTRIC RAILWAYS.

BERLIN, MASS.—The selectmen of this town granted a franchise to the Clinton & Hudson St. Ry. Co., June 9, to build a proposed electric railway through Berlin. The Clinton, Hudson, Maynard & Concord St. Ry. Co., in which E. E. Carpenter & Co., of Worcester, Mass., is interested, was also a petitioner.

BOSTON, MASS.—The Boston, Milton & Brockton St. R. R. Co. has filed articles of association, with a capital stock of $80,000, to construct a line from Boston to Randolph, via Milton and Quincy, a distance of eight miles. The directors are: G. J. Morse, Bradford, Hamilton, Treas.; S. A. Hilton, F. W. Archer and others.

NORTHBRIDGE, MASS.—It is reported that the selectmen of Northbridge have decided to give a public hearing at Whitinsville June 20 to the petition of the Worcester & Blackstone Valley St. Ry. Co., for a franchise to extend its line from Rockdale to Whitinsville.

WEST SPRINGFIELD, MASS.—The West Springfield & State Line St. Ry. Co. has been incorporated with a capital stock of $100,000, to construct 18 miles of electric railway, with a gage of 4 ft. 8½ ins., from Agawam to West Springfield. The directors are: Elisha P. Bartholomew, J. L. Worthy, Geo. A. Hill, Frank S. Rice and Geo. N. Norris, all of West Springfield; A. K. Fuller, Agawam, Mass.

SUFFIELD, CONN.—It is reported that the Suffield & East Granby St. Ry. Co. has accepted the charter granted by the last legislature, and that the following officers have been elected: Pres., Edward A. Fuller, Suffield; Secy., George P. McLean, Hartford, Conn.; Treas., Edmund Halladay, Suffield.

CATSKILL, N. Y.—The Catskill Electric Ry. Co. has applied to the state railroad commissioners for permission to increase its capital stock from $30,000 to $400,000. The road was originally built to be operated only for a distance of about two miles in Catskill village, but it is now proposed to extend to Windham and Cairo, and other villages in Greene and adjoining counties, making a line 16 miles in length. Edgar S. Fassett, Gen. Mgr., Albany St. Ry. Co., Albany, N. Y., is said to be interested.

LOCKPORT, N. Y.—The Lock City Electric Ry. was sold June 8 to Frank Haviland, of New York, representing the new Buffalo & Lockport Ry. Co., for $10,000. Pres., W. Caryl Ely, Niagara Falls, N. Y.

NEW YORK, N. Y.—The state board of railroad commissioners June 7 granted the Metropolitan St. Ry. Co. the right to use an underground system of electricity as motive power on Columbus Ave., between 106th and 110th Sts., and between 59th and 65th Sts.

NIAGARA FALLS, N. Y.—The Niagara Falls & Suspension Bridge Co., of this city, informs us that the right of way has not yet been obtained for the electric railway which it is proposed to build over the company's bridge and on both sides of the river.

WATERFORD, N. Y.—G. S. Leavenworth, C. E., Waterford, N. Y., informs us that work is progressing on the extension of the Stillwater & Mechanicsville St. Ry., from Mechanicsville to Waterford; grading will be finished and track-laying commenced this week.

PLAINFIELD, N. J.—F. J. Hubbard, Engr., of Plainfield, informs us that plans have been prepared and estimates are now being made for the new boulevard which Union county proposes to build parallel to the Central R. R. of New Jersey, from Plainfield to Elizabeth, a distance of 12 miles. The present 66-ft. road will be widened so as to be 100 ft. in width, and new sections built so as to make the road continuous. It is the intention of the freeholders to sell the franchise for an electric railway to operate over this route, so as to realize enough money to pay for the building of the boulevard. Engrs., J. L. Bauer, of Elizabeth; and F. J. Hubbard.

SCOTCH PLAINS, N. J.—The committee of the township of Fanwood, of which T. J. Nicholl, of Scotch Plains, is chairman, has granted a franchise to the Elizabeth & Westfield St. Ry. Co., Prudential Bldg., Newark, N. J., to construct an electric railway through this place. A. A. Gaddis, of Westfield, N. J., is interested.

NEW BRIGHTON, PA.—The Riverview Electric St. Ry. Co. has decided to extend its line across the 10th St. bridge, from Beaver Falls, Pa., to New Brighton, and to ask for right of way for about three miles of track there. The work will be pushed immediately.

PITTSBURG, PA.—The Consolidated Traction Co. has received a permit to erect a new one-story brick power house at 20th and Railroad Sts., to cost about $127,000.

WASHINGTON, D. C.—The Columbia Ry. Co. has obtained authority from Congress to build an eastern extension along Benning Road to the district line.——Congress has just authorized the prospective buyers of the Belt Line, which is in receiver's hands and to be shortly sold, to act as a corporation. This will probably mean the early installation of the underground electric system over a large part of the line.——Congress has also authorized the equipment of the Eckington & Soldiers' Home Ry. with the underground electric system.——The Capital Ry. Co. has been granted the privilege of connecting its line with the Metropolitan R.R. by laying a track from East Capitol St. down 11th to M St. S. E.——Press reports state that the Washington & Chesapeake Beach R. R. Co. has at last obtained an entrance into Washington, by leasing the Alexandria branch of the Baltimore & Ohio, between Deanwood and the power house of the Capital Ry. Co. in Anacostia, D. C. It is expected that electric trains will be running as far as Marlboro, Md., by July 1, using power from the above-mentioned power house. When completed to Chesapeake Beach, a power house will be erected at the Patuxent, across which river a steel bridge has just been built. Freight trains will be hauled by steam, passenger trains by electric motors, a new type of the third-rail system being used. Pres., Otto Mears, Denver, Colo.

RICHMOND, VA.—The Southside Ry. & Development Co., which was chartered March 3, has petitioned the supervisors of Henrico county for a franchise to construct a new line out on the Hermitage Road to the Hill Monument.

NATCHEZ, MISS.—The Natchez Power & Transit Co. is reported to have been formed by Maurice Moses and others, of Natchez, to construct and operate a street railway and an electric light plant.

VICKSBURG, MISS.—M. J. Mulvihill, Secy. Vicksburg R. R., Power & Mfg. Co., of Vicksburg, writes us that surveys have been completed, the right of way obtained and capital secured for the proposed 10-mile line of electric railway from Vicksburg into Warren county. Bids are now being received by J. C. Shaffer, Pres., Marquette Bldg., Chicago, Ill., for constructing the road and for the enlargement of the electric light plant, which has been purchased, in order to supply additional lights and the power necessary to operate the railway.

ORION, MICH.—It is reported that the board of Orion township has granted a franchise to John Winter and Oliver H. Lau to construct an electric railway from Orion to Pontiac.

DAYTON, O.—B. H. Rannells, Pres., Dayton, New Carlisle & St. Paris Traction Co., New Carlisle, O., informs us that the eltctric railway which this company proposes to construct will be 35 miles in length, running from Dayton to St. Paris, via New Carlisle, O. The final arrangements for building the line have not yet been completed.

DETROIT, MICH.—J. A. Russell, Vice-Pres. Detroit, Plymouth & Northville Ry., 615 Union Trust Bldg., Detroit, informs us that the surveys have been made and most of the right of way obtained for this proposed line from Wayne to Northville, via Newburg, Tonguish, Plymouth and Waterford, 14 miles. The general contract has been let to the International Construction Co., of Detroit, which expects to complete the work by Aug. 10. C. H. Lawrence, Ch. Engr., Detroit.

CHICAGO, ILL.—It is reported that the franchise and rights of the Chicago General Electric Ry. Co. have been bought by the Chicago City Ry. Co., of which M. K. Bowen is president, for $950,000. The franchises are all said to provide for the use of the underground trolley system, but there are doubts as to whether this system can be employed.

BLOOMINGTON, ILL.—The Bloomington & Normal Ry. Co. was incorporated in Illinois June 7 with a capital stock of $250,000. Among the incorporators is A. E. De Mange, who purchased the Bloomington City Ry. May 31, as stated in our last issue.

LAKE FOREST, ILL.—It is reported that T. J. McGrath, of Green Bay, Wis., has been awarded the contract for building an electric railway at this place.

WAUWATOSA, WIS.—The Milwaukee Light, Heat & Traction Co. has been granted a franchise to build an extension of its line from Wells St. to the Soldiers' Home.

ST. LOUIS, MO.—The Central Traction Co. has decided to accept the franchise recently passed by the Assembly over the mayor's veto. John H. Blessing, one of the directors, is reported as saying that contracts would soon be awarded for equipment and rolling stock.

CANON CITY, COLO.—N. F. Handy, Pres. Canon & Cripple Creek R. R. Co., of Canon City, informs us that this company has purchased all the surveys, rights of way, and grades of both the Canon City & Cripple Creek Electric Ry. Co., and of the Canon City & Gold Belt Ry. Co. The projected length of the line is 27 miles, from Canon City to Victor and Cripple Creek. It will be standard gaged, with 72-lb. rails and several steel bridges, and work is expected to be completed by Jan. 1. About nine miles of road have been graded by Orman & Crook, of Pueblo, Colo.; the balance of the contract has not yet been awarded.

LOS ANGELES, CAL.—The Los Angeles-Pacific R. R. Co. has been organized, with a capital stock of $1,000,000, by the amalgamation of the Pasadena & Pacific Ry. Co., of Arizona; the Pasadena & Pacific Ry. Co., of California; the Los Angeles-Pacific Ry. Co., of California, and the Los Angeles-Pacific Ry. Co. The estimated length of the line and its branches is 100 miles. The directors of the new company are: J. Ross Clark, M. H. Sherman, E. P. Clark, Pres.; W. D. Larrabee, John D. Pope, M. E. Hammond, and A. I. Smith, Secy.

PASADENA, CAL.—C. M. Simpson, representing the San Gabriel Traction Co., has petitioned the council for a franchise to build an electric railway in this city.

SAN FRANCISCO, CAL.—Oscar T. Weber has petitioned the supervisors for a franchise to construct a street railway to connect the Fillmore St. line with the Presidio, at Harbor View.

QUEBEC, QUE.—Reports state that the Quebec, Montmorency & Charlevoix Ry. and Quebec District Ry. Cos. have been consolidated, and that the former line will soon be converted into an electric railway. Edward A. Evans, Ch. Engr., Quebec.

ELECTRIC LIGHT AND POWER.

WESTBROOK, ME.—Bids are asked by the city clerk until June 20 for furnishing incandescent and arc lights of 16 and 25 and 1,600 c. p., respectively, for a term of five years.

BURLINGTON, VT.—The aldermen are considering the question of either accepting a proposition from the Consolidated Electric Co. for lighting the village at $80 a light a year or of establishing a municipal plant. The committee consists of Aldermen Isham, Shea and Gutchell.

MONTPELIER, VT.—It is stated that the Consolidated Lighting Co. has been enjoined from using electric power from the Viles plant in Middlesex. F. C. Kennedy and J. J. Flynn, of Burlington, are interested.

CONCORD, MASS.—We are informed as follows in regard to the proposed plant for this city: As yet nothing but preliminary work has been done, and that in the nature of making estimates for the determination of the machinery to be employed in generating the power and the system to be used in its distribution. The plant is a combination sewage pumping station and electric light plant. The town will own the plant, and it will be operated by steam. Probably there will be 300 25-c. p. series incandescent lamps for street lighting, in addition to the commercial lights required in the town. The latter will probably amount to a load of about four or five hundred 16-c. p. lamps. In about three weeks more definite information can be given. Stone & Webster, Elect. Engrs., 4 Post Office Square, Boston. C. E. Brown, Town Clk.

MILFORD, MASS.—The Milford Electric Light Co. is arranging to construct a new power-house, according to reports. Pres. and Mgr., Alfred Clark; Treas., Arthur E. Chilon, Boston.

HOMER, N. Y.—The village board is again considering the question of granting a 5-year franchise.

MASSENA, N. Y.—Press reports state as follows: On May 31 bids were opened by the St. Lawrence Construction Co., 40 Wall St., New York, for the completion of the St. Lawrence power canal and for building the power-house. The contract was awarded to T. A. Gillespie & Co., Pittsburg, Pa., at about $1,000,000. The work was first let to the Lehigh Construction Co., Scranton, Pa., but it stopped work after a short time. The work to be done by Gillespie & Co. will include about 8,000,000 yds. of excavation and the construction of a power-house 560 ft. long, 120 ft. wide and 60 ft. high. Two railway bridges, over Grasse and Racket rivers, are to be built.

WATERVLIET, N. Y.—The following bids were received by the commission June 10 for furnishing the plant with two boilers of 150 HP. each: Skinner & Arnold, $3,400; Ames Iron Works, $2,435; Pinkerton & Mull, $2,250; Franklin Iron Works, $2,200. The following bids were for boilers, 300 HP. engines, smokestack, etc.: Burnham & Granger, New York, $10,382; Miller & Co., New York (engine 250 HP.), $8,800; George A. Darby, Troy, $10,650; C. C. Peck, Rochester, $12,010; Knowlson & Kelley, Troy (accepted), $9,200.

ATLANTIC CITY, N. J.—It is stated that the supreme court has decided that the lighting contract recently let to John H. Rothermel, Reading, Pa., is valid.

CALDWELL, N. J.—It is stated that the People's Light & Power Co., Newark, has received the contract to light the borough for one year with 50 or more incandescent lights at $17 a lamp. Councilman Condit was willing to give the company a contract for five years at $16 a light, provided the corporation agreed to string wires for private houses free of charge. This the company refused to do.

CRANFORD, N. J.—Bids were asked until June 13 for lighting the streets with electricity or gas for a term of either one, two or five years; the number of lights to be not less than 160. S. T. Marshall, Township Clk.

DUNCANNON, PA.—Councilmen Boyd, Harper and Laird have been appointed a committee to arrange for the proposed plant.

LANSDALE, PA.—Bids will soon be asked by the council for building a plant, according to reports. The borough will issue $20,000 in 3½% bonds for the improvement.

MIAMI, FLA.—H. E. Robinson, Secy. Peninsula Electric Light & Power Co., P. O. Box 394, Orlando, Fla., writes us that bids are wanted at once for furnishing and constructing the proposed plant. It will have a capacity for 25 2,000-c. p. and 100 16-c. p. lights; estimated cost, $7,000.

ST. FRANCISVILLE, LA.—We are informed that Weydert & Smith, Bayou Sara, La., are trying to see what can be done in regard to the proposed plant.

VICKSBURG, MISS.—M. J. Mulvihill, Secy. Vicksburg R. R. Power & Mfg. Co., writes us that J. C. Shaffer, Pres., Marquette Bldg., Chicago, Ill., is receiving bids for enlarging the electric light plant, and for constructing the proposed railway. Further information is given under Street and Electric Railways.

LAWRENCEBURG, KY.—G. W. Dyer, Princeton, Ky., writes us that work must be begun on the proposed plant, for which he has been granted a franchise, by Aug. 2, and be completed by Dec. 2. Only one dynamo will be operated for arc and incandescent lights. A 60 to 65-K-W. machine, a 100-HP. engine, etc., will be wanted at once; estimated cost, $6,500. The plant will have a capacity for 30 arc and 900 incandescent lights.

IRONTON, O.—Bids are asked until July 14 for furnishing the streets with electric or gas lights for five or ten years. Geo. H. Davis, Cy. Clk.

LEBANON, O.—This place voted June 6 to issue $20,000 in bonds to buy the plant owned by I. W. Newcomer. F. M. Hamilton, Jr., Mayor.

MIDDLEPORT, O.—Geo. E. Cowey, Mgr. Mutual Electric Light Co., writes us that bids are being received for furnishing the machinery for the proposed plant; the contract will probably not be let until about July 1. There will be required a 100-HP. horizontal tubular boiler, a 90-HP. automatic cut-off engine, a 60-K-W. 250-volt direct-connected dynamo, etc. The plant will have a capacity for 900 16-c. p. incandescent lights. Geo. Pfarr, Pomeroy, O., is the owner.

NEW LONDON, O.—Bids are asked until July 2 for the purchase of $4,000 of 5% electric light bonds, according to reports. E. A. Winebar, Clk.

WOOSTER, O.—Bids are asked until July 6 for lighting this city with electricity. Engrs., E. P. Roberts & Co., Cleveland, O.; Chn. Com., I. N. Kinney.

GRAND RAPIDS, MICH.—Local papers state that the board of public works has let the following contracts for furnishing the materials for the proposed plant, as advertised in Engineering News: 500 enclosed arc lamps, the Adams & Bagnall Co., Cleveland, O., $8,500; complete pole line, out-door equipment, the Chase Construction Co., Detroit, $39,956; the option that the city has with the Grand Rapids Electric Light & Power Co. for 40 towers was accepted at $16,000; engines and dynamos, the Western Electric Co., Chicago, six Williams engines, $21,235; six dynamos, $14,000; complete boiler plant and Hawley down draft furnace, Babcock & Wilkes, New York, $16,307. The board decided not to install the incandescent system.

DANVILLE, ILL.—E. R. Kinsbrough, Mayor, writes that the council on June 9 appropriated $30,000 for a plant. No definite steps have yet been taken towards the installation of the plant. It will be able to furnish 200 or 300 arc lights of 2,000 c. p.

ELKHORN, WIS.—Bids are asked until June 21 for the purchase of $10,000 of 5% electric plant bonds for the proposed plant, noted in our issue of last week. D. W. Stafford, Mayor.

SOUTH MILWAUKEE, WIS.—Bids are asked by the village board for lighting the streets with 15 2,000-c. p. arc lights, according to reports. The A. D. Meiselbach Co. is reported to have applied for a 10-year franchise.

GAYLORD, MINN.—Bids are asked until July 15 for constructing a plant, as stated in our advertising columns; estimated cost, $5,000. C. W. Clasen, Village Recdr.

MADISON, MINN.—Bids were asked until June 14 for furnishing and installing a plant. Engrs., W. I. Gray & Co., Minneapolis; Recdr., J. H. Uglem.

KINGFISHER, OKLA.—Burns & McDonnell, Engrs., 306 New England Bldg., Kansas City, Mo., have been granted a 25-year franchise for arc and incandescent lighting. The plant will cost about $10,000. Bids for furnishing and constructing the plant will be asked in the near future.

LAFAYETTE, COLO.—H. E. Bocker, Pres., writes us that bids are wanted at once for furnishing wire and a small dynamo for the plant of the Lafayette-Louisville Electric Co. Everything else has been provided for.

LOS ANGELES, CAL.—Bids are asked until June 27 for furnishing electrical supplies, etc. C. H. Hance, Cy. Clk.

REDLANDS, CAL.—Press reports state as follows: The contract has been let for the construction of a line of poles from Crafton to Los Angeles, for the Southern California Power Co., for the purpose of carrying electric power from the power works in Santa Ana canyon to Los Angeles. There are now about 125 men at work in the canyon, completing the power plant. The line of poles are to be up by midsummer.

TORONTO, ONT.—Judge John J. Kingsmill, 4 Grange Road, Toronto, and A. C. Dennistoun, Engr., are reported interested in the proposed plant of the Canadian Power Co. Plans are being prepared.

NEW COMPANIES.—King Electric Co., St. Louis, Mo.; $10,000, with all paid in; John C. King, Ida A. King, John A. King.

White Plains Lighting Co., White Plains, N. Y.; $50,000; John C. Bennet, Brooklyn; Joseph L. Hall, Port Chester, N. Y.; Winthrop G. Bushnell, New Haven, Conn.

Natchez Light, Power & Transit Co., Natchez, Miss.; $250,000; Maurice Moses, Abraham Moses.

Crown Incandescent Light Co., 419 Market St., Camden, N. J.; $100,000, with $1,000 paid in; John Peckin, 419 Market St., Camden; Louis A. Repelto, Atlantic City, N. J.

BRIDGES.

WORCESTER, MASS.—We are informed that no definite action has been taken in regard to the proposed bridge over Lake Quinsigamond, to be 50 ft. long and 60 ft. wide. F. A. McClure, Cy. Engr.

NIAGARA FALLS, N. Y.—Bids are asked until July 1 for constructing a stone arch bridge from Goat Island to First Sister Island. Address the commissioners of state reservation, Bath Island.

ATLANTIC CITY, N. J.—Bids are asked until June 28 for constructing a 117-ft. span steel drawbridge over the Tuckahoe River at Tuckahoe, N. J. Plans and specifications on file with Frank A. Sander, 1013 Arctic Ave., Atlantic City. J. C. P. Smith, Clk. Com., Oceanview, N. J.

CAMDEN, N. J.—Bids are asked until June 29 for the removal of the present bridge over Cooper's Creek at State St. and for the construction of a new steel bridge at that place, as stated in our advertising columns. J. J. Albertson, County Engr.; Dr. J. B. Davis, Chn. Com.

CHANGEWATER, N. J.—The county commissioners have voted to construct an iron bridge, 90 ft. long and 16 ft. wide, over Musconetcong Creek, to cost about $7,000.

JERSEY CITY, N. J.—The Union Bridge Co., Jersey City, N. J., has been incorporated by Joseph Mayer, Nathaniel Havens, Chas. S. Smith, New York; E. Ludlow, Gould, Yonkers, N. Y., and Geo. A. Miller, Montclair, N. J., with a capital stock of $1,800,000, with $1,000 paid in, to conduct general contracts for the construction of public works, including canals, marine work, railroads, bridges, etc., roads, docks, piers, etc.

RAHWAY, N. J.—Plans are to be prepared for the construction of a new bridge at Bridge St. Louis Quien, County Engr.

MOSGROVE, PA.—Bids will soon be asked for the construction of a railroad bridge, 1,480 ft. long, over the Allegheny River, for the Allegheny & Western R. R. Co. A. E. Patton, Pres., Curwensville, Pa.

GREENWOOD, MISS.—Reports state that the Illinois Central R. R. Co. will construct a bridge over the Yalobusha River, on the Yazoo & Mississippi Valley extension. H. W. Parkhurst, Engr. Bridges, Chicago, Ill.

ALLIANCE, O.—The Wrought Iron Bridge Co., Canton, O., has been awarded a contract for the erection of a bridge across the Mahoning River.

CINCINNATI, O.—Bids are asked until July 9 for building the substructure and approaches of a bridge over the south fork of Taylor's Creek, in Miami township, and for masonry, excavation and fill for a bridge over Dry Run, Anderson township. Eugene L. Lewis, County Audr.

NEW PHILADELPHIA, O.—Bids are asked until June 23 for constructing the iron superstructure of a bridge over the Tuscarawas River, in Goshen township, according to reports. E. C. Browne, County Audr.

WAUSEON, O.—Bids are asked by the county commissioners until July 5 for constructing an iron bridge over Ten-Mile Creek, according to reports.

FLINT, MICH.—A petition by William Jeffers and others has been referred to the bridge committee for the construction of a new bridge across the Flint River, at South St. Mayor, George R. Gold.

ARGENTA, ILL.—The Canton Bridge Co., Canton, O., was awarded a contract June 10, at $2,320, for constructing a 100-ft. span bridge, 14 ft. wide, and including 144 cu. yds. of masonry.

BURLINGTON, IA.—Petitions have been presented for the construction of six bridges. Chris. Mathes, Chn. Bd. County Supervisors; M. P. Sharts, County Audr.

ABERDEEN, S. DAK.—Bids are asked until July 8 for the construction of a steel bridge, according to reports. J. H. Miller, County Audr.

ATCHISON, KAN.—The Chicago & Eastern Bridge Co. has been incorporated with a capital stock of $20,000; the stockholders are: W. F. Guthrie, W. W. Guthrie, W. W. Guthrie, Jr., N. D. Todd, H. H. Todd, G. F. Chaves, Norman Barratt, C. G. Barratt, Atchison; L. F. Bird, A. F. Smith, Kansas City; Theodore Fowler, St. Joseph. The company will maintain a bridge over the Missouri River.

HANOVER, KAN.—A contract has been awarded to Charles Nowland, St. Joseph, Mo., for the construction of a 120-ft. steel bridge, to cost about $100,000, according to reports.

OAKLAND, CAL.—A hearing will be given at the Flood Building July 6 to consider the question of constructing a bridge across San Antonio estuary at Webster St.

MOSCOW, IDAHO.—Bids are asked until July 12 for furnishing the material and for constructing the Taylor bridge. Jay Woodworth, County Clk.

CALDWELL, IDAHO.—Bids are asked until June 27 for constructing three steel and wooden bridges, 402 ft., 210 ft. and 188 ft. long. D. Knox, Chn. Bd. County Comrs.; W. C. Dunbar, Jr., Clk.

DUMFRIES, ONT.—Bids are asked until June 18 for constructing a wood or iron bridge, 385 ft. long, over the Grand River, near Galt, according to reports. T. C. Douglas, Reeve, North Dumfries.

HONOLULU, HAWAII ISLANDS.—Bids are asked until June 23 for constructing a 40-ft. steel bridge. W. E. Rowell, Supt. Pub. Wks.

BUILDINGS.

EAST BOSTON, MASS.—Plans have been accepted for erecting a new 3-story brick, stone and iron high school building at Marion and Princeton Sts., to cost about $200,000. Edwin P. Seaver, Supt. of Schools; John Lyman Faxon, Arch., 7 Exchange Place, Boston.

SPRINGFIELD, MASS.—Bids are asked until June 18 for heating and ventilating the Alden St. school building. Chas. E. Brown, Chn. Cy. Property Com.; B. Hammett Seabury, Arch., Gill's Block.

BINGHAMTON, N. Y.—Plans are being prepared, according to reports, for a 5-story brick and stone fireproof bank and office building to be erected in this city for the Binghamton Savings Bank, at a cost of about $50,000. Archs., Ingle & Almirall, 874 Broadway, New York.

BROOKLYN, N. Y.—Bids are asked by the department of public charities, boroughs of Brooklyn and Queens, at 66 3d Ave., New York, until June 27, for materials and work required for repairs at Kings County Hospital and Almshouse, Flatbush, Borough of Brooklyn, as follows: (1) Roof and skylight for kitchen extension, hospital; (2) roof for boiler house, hospital; (3) roof and skylight for bath-house extension, almshouse.

GOWANDA, N. Y.—Bids are asked by Fred. J. Blackmon, 626 Ellicott Square, Buffalo, N. Y., representing the board of managers, until June 23, for erecting a laundry building, associate dining room, kitchen, bakery, store and refrigerating rooms and a connecting corridor, and for plumbing, electric wiring and fixtures for the same, and for an electric light plant for the Collins State Homeopathic Hospital at Gowanda. Arch., Aug. C. Esewein, 707 Mooney Bldg., Buffalo.

NEW YORK, N. Y.—Bids are asked by the board of education, at 585 Broadway, until June 29, for making alterations, repairs, etc., at Public Schools Nos. 41, 45, 48, 55, 56, 88, 90, 101, 126, 140, 161 and Mixed High School; also for improving the sanitary condition of Public Schools Nos. 6, 18, 27, 53, 73 and 76; also for altering and repairing the heating and ventilating apparatus of Public Schools Nos. 16 and 87.——Bids are being received, according to reports, for the construction of a 4-story store and office building for William Sicling, 696 East 147th St., at Westchester Ave. and 156th St. Arch., C. B. Myers, 3 Union Square.——Plans have been filed by Daily & Carlson, 1742 Amsterdam Ave., for a 7-story brick flat building at 106th St. and West End Ave., to cost $120,000. Archs., Neville & Bagge, 215 West 125th St.; by J. J. Schreiner, 110 West 121st St., for two 5-story brick flat buildings, 96th St., near Central Park West, to cost $52,000. Arch., John Hauser, 1441 3d Ave.; by William C. Turner, 132 Nassau St., for fifteen 4-story brick flat buildings at 186th St. and Vanderbilt Ave., to cost $225,000. Arch., Thomas Graham, 1238 Madison Ave.; by Morris Mandelstein, 118 East 98th St., for four 5-story brick flat buildings on Brook Ave., near 164th St., to cost $88,000. Arch., Thomas Graham, 1238 Madison Ave.; by H. B. Turner, Englewood, N. J., for a 10-story brick and stone flat and store building at 513 and 515 Madison Ave., to cost $150,000. Archs., Hill & Turner, 44 Broadway; by the Sailors' Snug Harbor, 31 Nassau St., for a 6-story brick store and loft building at 9th St. and University Place, to cost $130,000. Arch., Robert Maynicke, 725 Broadway; by T. J. McGuire, 968 St. Nicholas Ave., for a 7-story brick and stone flat and store building on the Boulevard, near 91st St., to cost $80,000. Arch., H. T. Howell, 748 East 138th St.; by Lorenz F. J. Weiher, Jr., Owner and Arch., 125th St. and Park Ave., for six 5-story brick flat buildings on 147th St., near St. Ann's Ave., to cost $150,000; by Wm. W. Hall, 31 East 74th St., for a 4 and 5-story brick dwelling at 1 East 80th St., to cost $60,000. Arch., Alex. M. Welch, 503 5th Ave.; by Levi P. Morton for a 12-story brick office and loft building at 114 and 116 Nassau St. and 45 Ann St., to cost $100,000. Archs., Clinton & Russell, 32 Nassau St.; by Edward Robitzek, 944 East 165th St., for three 4-story brick flat buildings at 161st St. and Cauldwell Ave., to cost $70,000. Arch., M. J. Garvin, 3311 3d Ave.; by Elizabeth Aymar, 102 5th Ave., for a 5-story brick office building at 27 and 29 Beaver St., to cost $60,000. Archs., Trowbridge & Livingston, 287 4th Ave.

NEW YORK, N. Y.—It is reported that M. Reid & Co., No. 18 East 20th St., have the general contract for the 10-story business building to be erected at 298 Broadway for John A. Chanler, 120 Broadway, at a cost of $110,000. Archs., McKim, Mead & White, 160 5th Ave.——Robinson & Wallace, No. 123 East 23d St., have been awarded the general contract for the 7-story apartment house, 125 × 55, to be erected at Washington Square and Macdougal St., for Mrs. Mary A. Chisholm. Archs., Thorn & Wilson, 111 5th Ave.——Bids will be asked in about a week for erecting the new National Academy of Design, Amsterdam Ave. and 110th St. Archs., Carrere & Hastings, 28 East 41st St.

TOMPKINSVILLE (S. I.), N. Y.—Bids are asked until June 22 for furnishing the material and for the construction of the Roemer Shoal light-house, New York Bay, as stated in our advertising columns. Lieut.-Col. D. P. Heap, U. S. Engr., Tompkinsville.

NEW BRUNSWICK, N. J.—We are informed that a new school building will be erected in this city, but that no plans have yet been prepared nor architect selected. H. B. Zimmerman, Pres. Bd. Education; H. A. Kibbe, Cy. Clk.

PITTSBURG, PA.—Bids are asked by the department of public safety until June 17 for furnishing a freight elevator in the department storehouse on Cherry Alley, etc. Director, J. O. Brown.

PITTSBURG, PA.—The Henderson-Johnson Co.'s storage warehouse, recently destroyed by fire, will be rebuilt at once at the site of the old building on Carson St., South Side.

READING, PA.—A fire in this city June 8 damaged the building occupied by Oppenheimer & Gehring, causing a loss of about $20,000 to the building; total loss, $60,000.

SPARTANSBURG, PA.—The business portion of this town was destroyed by fire June 13, causing a reported loss of $150,000. The post-office and about twelve store buildings were burned.

BALTIMORE, MD.—John Hiltz, Law Bldg., is said to have received the contract for erecting the new building for Marsdon University. Arch., J. E. Sperry, 601 Herald Bldg.

PARSONS, W. VA.—P. Q. Shrake, of Friendly, W. Va., was awarded the contract June 3 for the construction of the new court house complete, at $30,300. Frank P. Milburn, Architect, Charlotte, N. C.; Wm. M. Clayton, Clk. of Tucker county, Parsons.

MOUNT OLIVE, N. C.—A fire at this place on June 8 destroyed 12 store buildings occupied by R. J. Southerland, C. B. Hatch, Parker Bros. and others; reported loss, $50,000.

IRWINVILLE, GA.—Bids are asked until July 7, according to reports, for erecting a 2-story brick jail building. M. Henderson may be addressed.

NASHVILLE, TENN.—The city council has authorized the Terminal Co. to construct a new union passenger station building, 167 × 167 ft., near Broad and Walnut Sts., and also two viaducts and three freight sheds, at an estimated cost of $1,650,000. It is expected to complete the work by Jan. 1, 1901.

MONTICELLO, KY.—J. A. Cooley, Williamsburg, Ky., was the lowest bidder for constructing the new court house at this place, at $14,000. A. Fairchild, County Clk.

PADUCAH, KY.—Bids are asked until July 1 for the erection of a school building. Arch., Brinton B. Davis, 113 South 4th St., Paducah.

CLEVELAND, O.—Bids are asked by the clerk of the board of control, 105 City Hall, until July 6 for the plumbing and gas-piping for the new Children's Hospital at the City Infirmary on Scranton Ave. Wm. J. Akers, Director of Charities.

SOUTH BEND, IND.—It is reported that the contract for erecting a hotel building at this place for James Oliver has been let to Jacob Rodatz, 167 Dearborn St., Chicago.

CHEBOYGAN, MICH.—The contract for erecting the new court house for Cheboygan county has been awarded to the Cheboygan Mfg. Co. at about $30,000. Wm. N. Cross, County Clk.

DETROIT, MICH.—The Case power building on Congress St. West, occupied by the Wheeler Bicycle Saddle Co., Morrison Printing Co., Eurpee Mfg. Co., and others, was damaged by fire June 11 causing a reported loss of $100,000 to the buildings and about $100,000 on the machinery and contents. Owner, George F. Case.

DETROIT, MICH.—Bids are asked until June 21 for erecting a 12-room school building at Forest Ave. and Joseph Campau Ave.; also an 8-room school building at Rivard and Frederick Sts. L. H. Chamberlin, Secy. Bd. of Education, 50 Miami Ave.

CHICAGO, ILL.—The Western Electric Co. proposes to erect a new 8-story building at Clinton and Jefferson Sts. to cost about $200,000. Arch., Samuel A. Treat.——Bids are being received, according to reports, for the building to be erected at 5th Ave. and Charles Place, for the Carter Estate, to cost about $150,000. Archs., Holabird & Roche, 1618 Monadnock Block.

WAUKESHA, WIS.—The following contracts have been awarded for erecting the new high school building: Mason work, August Dieman, $9,295; Carpenter work, E. Laughlin, $9,630; stone, Genesee Quarry Co., $5,545; plumbing, A. G. Haynes, $1,416; painting and glazing, M. Bentley & Son, $1,325; galvanized iron work, slate roof and tin work, F. Tolg, $1,950; heating, ventilating and electric service, American Foundry & Furnace Co., $3,298. All are residents of Waukesha but one.

WAUSAU, WIS.—Bids are asked until June 20 for erecting and completing a new high school building. Supt., Karl Mathie; Archs., Van Ryn & De Gelleke, Milwaukee, Wis.

CALMAR, IA.—The following bids were received June 6 for erecting a new school building in this town: J. B. Kaye, Secy. School Bd.; F. W. Kinney, Arch., Austin, Minn.: Floskend & Beinengen, Calmar, $10,300; J. L. Wood, 432 Laura Ave., St. Paul, Minn. (accepted), $8,900; A. C. Thomas, Blooming Prairie, Minn., $8,582; Anton Zwack, Ossian, Ia., $8,500.

ABERDEEN, S. DAK.—Bids are asked until July 1 for erecting the superstructure of a Catholic church building. Pastor, J. O'Hora.

HANKINSON, N. DAK.—Bids are asked until June 20 for erecting a brick veneered school building, and also for a heating plant. Clk., W. G. Tubbs; Archs., Schuler Bros., Wahpeton, N. Dak.

RAWLINS, WYO.—It is reported that the Union Pacific Ry. Co. will during the coming summer erect a 20-stall round-house at this place. Plans have been prepared.

BUTTE, MONT.—A new 2-story school building, 120 × 72 ft., will be erected at East Galena and Atlantic Sts., to cost about $30,000.

KANSAS CITY, MO.—Reports state that the directors of the Union Depot Co. have accepted plans for the remodeling of the present railway station, to cost about $30,000. Archs., Van Brunt & Howe, 1214a Main St.

ST. LOUIS, MO.—It is reported that D. Crawford & Co. will improve the buildings at Washington Ave. and 6th St., at a cost of about $150,000. Archs., Webber & Groves.

CHEHALIS, WASH.—Bids are asked by C. W. Long, until October 30, according to reports, for constructing a school building in School District No. 34.

SACRAMENTO, CAL.—Samuel Ginsburg is said to contemplate the erection of a new theater building at J. 10th and 11th Sts., to cost about $75,000. Plans are now being prepared.

DECOTO, CAL.—Reports from Oakland, Cal., state that R. P. Hurlbut has been awarded the contract for constructing a 2-story brick building for the Masonic Widows' & Orphans' Home, at Decoto, at $16,305.

SONORA, CAL.—Chas. F. McCarthy, of San Francisco, has the general contract for building the new Tuolumne county court house, at $72,893. Herring, Hall & Marvin Co. will put in the vaults, at a cost of $2,650. Archs., William Mooser & Son, San Francisco, Cal.

LONDON, ONT.—The hospital building committee has recommended the acceptance of the following bids for erecting the new Victoria hospital: Carpenter work, John Purdom, $23,295; brickwork, Martyn & Hammett, $27,495; painting and glazing, Pace & Fitzgerald, $2,280; plastering, Pritchett & Murray Bros., $4,170. Bids for heating and plumbing were not asked.

TORONTO, ONT.—Bids are asked until June 22 for placing elevators in the new city buildings. Mayor, John Shaw; Arch., E. J. Lennox, King and Yonge Sts.——Plans have been prepared for extensions to the Hotel Dieu, to cost about $58,000. Mr. Talbot is the architect.

NELSON, B. C.—The contract for the construction of a new Baptist Church building, 36 × 64 ft., on Stanley St., has been let to Contractor Kribs. Archs., Ewart & Carrie.

WATER-WORKS.

WEST SPRINGFIELD, MASS.—The governor has signed the bill authorizing Holyoke to sell water to this place, for an increased water supply. J. J. O'Keefe, Chn. Com.

BOLIVAR, N. Y.—The Bolivar Water-Works Co. has been incorporated with a capital stock of $16,000. It was recently granted a franchise. Pres., S. F. Seibert; Secy., J. P. Herrick.

BUFFALO, N.Y.—Bids are asked until June 23 for furnishing corporation cocks, pipe, castings, valve and service boxes, manhole covers and hydrants for the bureau of water for the coming year, also for repairing pavements disturbed in laying pipes. R. G. Parsons, Secy Bd. Pub. Wks.

BUFFALO, N. Y.—The board of public works is considering the question of locating the new pumping plant at the Front.

EAST WORCESTER, N. Y.—E. W. Moxley, Secy. East Worcester Water Co., writes us that the company is negotiating for a different water supply than was contemplated a few days ago, and in case it succeeds the bids received in response to the advertisement in our issue of last week will have to be rejected. The company only decided on the latter plan June 11. It is expected that the question will be definitely settled in a few days.

FULTON, N. Y.—O. C. Breed, Cy. Engr., writes us that the water commission has reported that no deal could be made with the Fulton Water-Works Co. for the purchase of the works, and the commission has recommended the construction of municipal works, to cost about $115,000. A special election will be held June 28 to vote upon the proposition.

HAVERSTRAW, N. Y.—This city voted June 9 against building municipal works.

MIDDLEPORT, N. Y.—E. Brown Baker, Engr., Gloversville, N. Y., and Geo. F. Thompson, Middleport, have been granted a 30-year franchise for works; estimated cost, $30,000.

NEWBURG, N. Y.—The water commissioners are considering the question of constructing a supplemental 20-in. water main in Washington St. President Sneed may be addressed.

WAYLAND, N. Y.—We are informed that an election will be held June 16 to vote on the question of issuing $35,000 in bonds for works. It is proposed to secure the water supply from Loon Lake, a distance of five miles. Engr., J. F. Witmer, 707 Ellicott Square, Buffalo. Geo. E. Whitman, Pres.

JUNCTION, N. J.—The Junction Water Co. has been incorporated with a capital stock of $12,000, of which $1,000 is paid in; incorporators, Ellsworth P. Boyer, Junction; Geo. M. Bowlby, Somerville, N. J., Percival Chrystie, High Bridge, N. J.

BEDFORD, PA.—It is stated that the council has cancelled the contract let to H. P. Malone, of Hollidaysburg, for the erection of a new reservoir, on account of failure to file bond, and the work was awarded to Col. J. W. Rutherford at $16,500. Malone's bid was $12,146.

MEDIA, PA.—Contracts for the improvement of the Media works were awarded on June 7 as follows: 14 × 30 × 7 Corliss simple non-condensing inside-packed piston pumping engine and foundation for same; 60-in. × 14-ft. horizontal return tubular boiler bricked in complete including foundation; 500,000-gallon pressure filter and foundation for same; settling basin; steel stack 36 ins. in diameter and 100 ft. high erected; straight copper steam tube cast-iron body vertical heater containing 50 sq. ft. of heating surface erected; all piping and accessories to Robt. Wetherill & Co., Chester, Pa., $11,388. Pumping station including stack foundation and pumping well to Isaac N. Flounders, Media, $6,440. Wrought iron stand-pipe, 35 × 35, designed for an increased height of 10 ft., erected complete, including foundations, to the Walsh Boiler Works, Springfield, Mass., $2,895. Ch. Engr., J. W. Ledoux, American Pipe Mfg. Co., 112 North Broad St., Philadelphia.

MILLERSBURG, PA.—The address of dealers in pig lead is wanted by H. G. Frederick, water-works contractor of this place.

MUNCY, PA.—The Muncy Water Supply Co. has taken possession of the work recently purchased from the Muncy Water Co. The Continental Water-Works Co., Scottdale, Pa., is now the largest owner in the new company. Some improvements to the water supply will be made. Supt., W. H. Thompson.

PARNASSUS, PA.—Press reports state that this city has been enjoined from constructing works to cost $17,000. The itemized bids for this improvement, advertised in Engineering News, were given in our issue of last week.

SCOTTDALE, PA.—We are informed that the Citizens' Water Co., Scottdale, is laying 7,000 ft. of pipe from its system at Everson to supply the Old Meadow Rolling Mill with water. The pipe is being furnished by the National Foundry & Pipe Works and the contract for laying the same was awarded to J. I. Dick.

WASHINGTON, D. C. — The district commissioners have allotted $7,000 for the purpose of continuing the extension of the high service system.

ATLANTA, GA.—Bids are asked until June 22 for furnishing 250 tons of 6-in. cast-iron water pipe, as stated in our advertising columns. Park Woodward, Supt. Water Comrs.

COLUMBUS, GA.—We are informed that by a recent action of the council the city will enter into a contract with the Columbus Water-Works Co. to extend its works so as to supply the Rose Hill, North Highlands and East Highlands districts. These districts are higher than the old city (which is already being supplied with water by the Columbus Water-Works Co.), and will necessitate pumping from the present system to stand-pipe, which has already been built on Rose Hill. Under the proposed agreement the company will put in two power pumps (water power to be used), combined capacity 1,500,000 gallons, 24 hours, and will lay about 30,000 ft. of 8 and 6-in. mains. Work on the extension has already begun. R. L. Johnson, Supt. Pub. Wks.

JACKSON, GA.—M. L. Hendrick, of the water committee, writes us that no survey for the works have yet been made.

UNADILLA, GA.—This place has voted to issue $4,000 in 8% bonds for the proposed improvements to the works. Population, 700.

MONTGOMERY, ALA.—J. H. Clisby, Mayor, has urged the committee to ask for bids for furnishing 50,640 ft. of 4, 6 and 8-in. cast-iron water pipe, 120 gate boxes, 60 hydrants, etc., for the works; estimated cost, $30,000. Consult. Engr., Nesbit Wingfield, Norcross Bldg., Atlanta, Ga.; Chn. Com., J. T. May.

SUMMIT, MISS.—New bids are asked until about July 5 for the purchase of $15,000 of 20-year 6% bonds for the proposed works. J. B. Holden, Mayor.

RUSTON, LA.—Fred. W. Price, Mayor, writes us that the question of issuing $50,000 in bonds for works, a light plant, etc., will have to be submitted to a vote of the people before anything definite can be done.

GALLATIN, TENN.—W. A. Oldham, Cy. Recdr., writes us that this place voted June 4 against issuing bonds for works.

LOUISVILLE, KY.—Local papers state that plans and specifications for the construction of the filtering plant of the Louisville Water Co. will be ready soon. Bids will then be asked for the construction. The filter will be built on the land adjoining the reservoir.

CANTON, O.—Bids were asked until June 13 for furnishing a new water supply at the Stark County Infirmary. J. C. Gerwig, Supt., writes us that it will cost $1st of an 8-in. well 115 ft. deep, steam pump, etc., to cost $800.

CINCINNATI, O.—The city hospital trustees are again considering the question of securing a water supply for the Branch Hospital in Lick Run.

CRESTLINE, O.—The question of extending the 16-in. water main and making other improvements to the water-works at a cost of about $45,000 is being considered by the council, according to reports.

LANCASTER, O.—Bids are asked until July 5 for furnishing and constructing works, a sewerage system, etc., at the grounds of the Boys' Industrial School. C. D. Hilles, Secy., Lancaster.

NORWALK, O.—Bids are asked until June 25 for furnishing the material and for constructing a pumping station and a smokestack, as described in our advertising columns. Consult. Engr., L. E. Chapin, Canton, O.; Secy., E. A. Smith.

SHERIDAN, IND.—The Sheridan Water Co. has been incorporated with a capital stock of $1,000 by J. M. Harris and Chas. E. Gregory.

MORGAN PARK, ILL.—Bids are asked until June 21 for furnishing a quantity of cast-iron water pipe. Engr., G. L. Clausen, 164 La Salle St., Chicago; Pres. Bd., M. H. King.

TWO HARBORS, WIS.—W. D. Bishop, Pres. Racine & Milwaukee Electric R. R. Co., Racine, and W. F. Rickert, Racine, are reported as interested in the proposed works and light plant.

MINDEN, IA.—Bids are asked until June 23 for constructing the proposed works, as stated in our advertising columns May 26. (Postponement from June 7.) J. W. Crow, Mayor.

OGDEN, IA.—Bids are asked until July 5 for furnishing and constructing the proposed works. I. H. Noyes, Mayor.

MORRIS, MINN.—Bids are asked until July 9 for furnishing and constructing works to cost $25,000. Engrs., Iowa Engineering Co., Clinton, Ia.; Village Recdr., W. F. Cooley.

ULEN, MINN.—A. E. Holmberg, Pres. Council, writes us that no arrangements have yet been made for works and are not likely to be this year.

WINNEBAGO CITY, MINN.—Bids are asked until June 20 for building a new reservoir of 75,000 gallons capacity. Engrs., M. B. Haynes, Mankoto, Minn.; Cy. Recdr., W. M. Wasgatt.

RAWLINS, WYO.—The Union Pacific Ry. Co. is reported as considering the question of building works in this city at a cost of about $100,000. The water supply to be secured from the Platte River.

ELK POINT, S. DAK.—Bids are asked until June 20 for furnishing a steam engine, boilers, smokestack, pumps, etc. C. H. Freeman, Mayor.

DILLON, MONT.—We are informed that the city recently granted a 20-year franchise for works. The city has since tried to annul the franchise, the works not having been begun. The matter is now in litigation. Population, 2,500. Geo. P. Mellen, Dillon, may be addressed.

GUTHRIE, OKLA.—Bids are asked until July 5 for furnishing at least 500,000 gallons of water a day. Geo. M. De Groff, Cy. Clk., and Robert Henderson may be addressed.

KINGFISHER, OKLA.—We are informed that Burns & McDonnell, Civil and Hydraulic Engrs., New England Bldg., Kansas City, Mo., have been granted a 20-year franchise to furnish this city with a water supply; they to use the mains owned by the city. The water will be secured from wells. Plans are being prepared. Bids for the work will soon be asked.

VAN ALYSTINE, TEX.—This place has voted to issue bonds for works, according to reports.

GOLDFIELD, COLO.—Press reports state that the council of Goldfield June 8 made a contract with Victor whereby the latter municipality will furnish the town with water for the next five years at 12½ cts. a 1,000 gallons. Victor will simply furnish the water and Goldfield will lay its mains as soon as possible.

ABERDEEN, WASH.—Bids are asked until June 29 for extending the 4-in. main to South Aberdeen, at a cost of about $1,100. Geo. A. Black, Cy. Clk.

NORTHPORT, WASH.—We are informed that the Le Roi Mining & Smelting Co. is about to install water-works for this place. Des. Engr., E. W. Cummings, Northport.

SEATTLE, WASH.—Bids are asked until June 30 for furnishing all material and labor for the erection of a stand-pipe for the Cedar River water supply, situated in the city park. The approximate quantities of materials and fittings necessary for the construction of said stand-pipe are as follows: 130,000 lbs. of steel; 2,000 lbs. of special castings; 2,200 lbs. of 12-in. cast-iron pipe; 40 ft. of 12-in. Kalamein pipe; 2 12-in. gate valves; 1 11x18-in. manhole head; 1 12-in. swing gate; 1,400 sq. yds. of asphalt coating. Frank Oleson, Secy. Bd. Pub Wks.

CONDON, ORE.—W. A. Darling, Cy. Recdr., writes us that it is not likely that anything will be done in regard to the works this year.

MORO, ORE.—The Moro Water Co. has been incorporated by W. H. Moore, Wm. Holder and L. W. Hunting; capital stock, $7,000.

LISTOWEL, ONT.—Bids are asked until June 29 for furnishing and constructing the proposed works to cost $17,500. An election will be held July 6 to vote on the question of building the works and the power-house to cost, $2,200. Engr., John Galt, Canada Life Bldg., Toronto, Ont.; Clk., W. E. Binning.

CRANBROOK, B. C.—The Canadian Pacific Ry. Co., it is reported, will build a reservoir 2½ miles from here to furnish this place with water. The reservoir will have a capacity of about 1,200,000 gallons.

SLOCAN CITY, B. C.—It is proposed to build the projected works this year at a cost of about $5,000.

VICTORIA, B. C.—The question of extending the mains is being considered. Aldermen Kinsman and Wilson are on the committee.

WINNIPEG, MAN.—Bids are asked until Aug. 8 for furnishing cast-iron pipe, specials, hydrants, valves, etc., as stated in our advertising columns. W. G. Bell, Chn.; C. J. Brown, Clk.

SEWERAGE.

BREWER, ME.—This place has decided to issue $10,000 in bonds for a system. Alderman Young and Mayor Sargent may be addressed. Engr., P. H. Coombs.

DEERING, ME.—It is proposed to construct a sewer in Thomas St. at a cost of $1,600.

LEWISTON, ME.—The question of building additional sewers in certain streets is being considered.

WINOOSKI, VT.—The following bids were received June 6 for constructing a system, as advertised in Engineering News; Engr., V. K. Nash, Providence, R. I.; Chn., O. W. Peck; M. J. Fitzpatrick, Plattsburgh, N. Y. (lowest), $13,212; Baker & Banger, Gloversville, N. Y., $14,705; E. H. Post, Wilkesbarre, Pa., $14,328; H. A. Hanscombe & Co., West Medford, Mass., $16,652; Samuel D. Frescoin, Reading, Pa., $17,219; D. H. Parsons, Westfield, $19,400; Robert D. Maynard, Springfield, Mass., $18,666; J. J. Flynn, $18,710; C. E. Trumbell, Boston, $20,500; F. C. Kennedy, $19,156; Peter Fountain, $19,939; Lucien A. Taylor, Boston, $18,802; J. W. McConnell, Brooklyn, $20,264; M. Bruso, Boston, $18,900; G. M. Bryant, Hyde Park, Mass., $22,975; Long & Little, Leominster, $21,500; W. Orlando, Belchertown, Mass., $25,478; Franklin A. Snow, Boston, $25,370; Fred. E. Shaw, Providence, R. I., $25,212; W. H. Sherman, Providence, $25,240; C. F. Furnell, Melrose, Mass., $24,475.

HOLYOKE, MASS.—The question of building a sewer in the northern part of Highlands at a cost of about $75,000.

SALEM, MASS.—The aldermen are considering the question of appropriating $250,000 for establishing a chemical sewage disposal plant.

EAST BRISTOL, CONN.—Bids are asked until June 20 for constructing two additional sewage disposal beds. D. J. Heffermann, Clk.

NEW HAVEN, CONN.—A. Brazos & Son have been awarded the contract for constructing a sewer in Hallock Ave., at $10,682. J. B. Whitby has the contract for constructing sewers in four streets, at about $5,400.

WATERBURY, CONN.—Bids are asked until June 23 for constructing about 4,500 ft. of 15 to 8-in. pipe sewers, 25 manholes, etc. R. A. Cairns, Cy. Engr.

ALBANY, N. Y.—Bids are asked until June 20 for vitrified and cast-iron pipe sewers in two streets. Thos. J. Lanahan, Clk.

BUFFALO, N. Y.—City Engineer Bardol reports to the aldermen that it will cost $705,873 to abate the Hamburg Canal nuisance. It will be filled up and the sewage of which it is the present outlet will be carried off by a system of 13 new sewers which will empty into a pumping station, where the refuse will be pumped into the Swan St. trunk sewer.

JOHNSTOWN, N. Y.—This city has, since 1882, been sewering into the Cayadutta Creek, which runs through the city. A supreme court injunction, which has recently been affirmed by the court of appeals, has been temporarily suspended by agreement with the complainant, a mill owner on that creek. The city is now taking steps to provide a permanent system by which it may comply with the injunction and stop the expense of the payments to the mill owner, who secured the injunction, and has engaged Olin H. Landreth, Engr., of Union College, Schenectady, N. Y., to examine and report on a comprehensive plan of sewerage and sewage disposal for the entire city. The matter is somewhat complicated by the large amount of tannery waste and chemicals which the system will have to provide for taking care of ultimately.

HACKENSACK, N. J.—Bids are asked until June 20 for the purchase of $11,000 of 5% sewer bonds. L. A. Campbell, Clk., 76 Main St., Hackensack.

PATERSON, N. J.—Bids are asked until June 17 for constructing sewers in a number of streets. Thos. McLean, St. Comr.

STOCKTON, N. J.—The governor has signed the bill authorizing this place to build a system. Town Attorney, Miller may be addressed.

UNION, N. J.—It is proposed to construct a main sewer in a number of streets. Wm. C. Heppenheimer, Attorney, may be addressed.

WOODBURY, N.J.—D. T. Mathers, Cy.Clk., writes us that this place voted against building a system.

DARBY, PA.—Bids are asked until June 20 for constructing sewers in Main and 12th Sts. Engrs., Harris & Damon, 864 Main St., Darby; Chn. Com., Chas. Drewes.

MEADVILLE, PA.—Bids are asked until June 29 for 1,300 ft. pipe sewer, as stated in our advertising columns. W. A. Doane, Cy. Engr.; D. T. McKay, Jr., Cy. Clk.—A bill was introduced in the council June 8 to lay a sewer in Liberty St., from North to Randolph Sts. Bills for sewer in lower Mead Ave. passed first reading in the council on June 8. A resolution for drawing an ordinance for a sewer in Cottage St., from North St. to Randolph St., was passed by the council. D. T. McKay, Cy. Clk.

MERCER, PA.—Bids are asked until June 27 for constructing 12,565 ft. of 10, 8 and 6-in. pipe sewers in east side, as stated in our advertising columns. J. M. Campbell, Clk.

SOUTH BETHLEHEM, PA.—Thos. Ganley writes us that the council passed an ordinance June 9 to submit to the people on July 26 the question of issuing $100,000 in bonds for a system.

TAMAQUA, PA.—Bids are asked until June 22 for constructing a 30-in. pipe sewer, etc., as stated in our advertising columns. J. W. Ditchey, Chn. Com.

WASHINGTON, D. C.—Bids are asked until July 9 for furnishing sewer pipe, brick, cement, etc., as stated in our advertising columns. Address the District Commissioners.

WAYCROSS, GA.—R. P. Bird, Clk. Council, writes us that this city will vote July 9 on the question of issuing $50,000 in bonds for a system. If the proposition carries the bonds will be offered for sale at once.

MOBILE, ALA.—D. W. M. Ross, Cy. Engr., writes us that the city has not yet approved the plans for a system recently submitted. The committee includes Mayor J. C. Busk, J. B. Davis, E. L. Russell and Councilman P. I. Lyons.

LEXINGTON, KY.—Local papers state that the asylum commissioners will let the contracts at once for building a sewer from the asylum grounds to the town system, about a mile.

CLEVELAND, O.—Chas. T. McCracken has been awarded the contract for constructing a sewer in the Boulevard at $10,555, and also a sewer in Malcolm St., at $20,230. E. A. Roberts, Secy.

MARION, IND.—The following bids were received June 7 for constructing the proposed system, as advertised in Engineering News; L. M. Overman, Cy. Engr.:

Bidder.	Central Dist. storm sewer.	Sanitary sewer.	So. Main storm sewer.
Kalamazoo Con. & Supply Co.	*$5,296	$16,965	$22,459
J. M. Lilly	5,621	30,622	28,674
Miller & Williams	3,552	21,590	21,264
D. H. Fatout	4,900	24,850	28,038
M. M. Defrees	3,945	28,510	22,748
Byrne & Shortall	3,960	44,148	22,635
Greenville Construction Co.	3,918	18,466	*19,720
J. J. Mahoney & Co.	4,610	26,065	27,038
McCourt & Davidson	3,557	*16,008	21,300
W. R. Mercer	.....	28,808	.....
Daniel Delaney	.....	.....	19,775
Wm. C. Allen	.....	.....	23,462
James M. Waugh	.....	.....	21,604

*Awarded contract.

LANCASTER, O.—Bids are asked until July 5 for furnishing the materials and for constructing the sewage disposal plant, sewerage system, etc., for the Boys' Industrial School. C. D. Hilles, Secy. Bd. Trustees.

AURORA, IND.—Bids are asked until July 2 for constructing a sewer in Second St., and also in several alleys. J. J. Backman, Cy. Clk.

SEYMOUR, IND.—It is proposed to construct a pipe sewer 2,800 ft. long; estimated cost, $2,473.

MUSCATINE, IA.—Bids are asked until June 16 for constructing 1,700 ft. of 24x38 and 28x42-in. brick sewer; 500 ft. of 10 and 6-in. pipe sewers; stone masonry outlet, etc. J. J. Ryan, Cy. Engr.

JEFFERSON CITY, MO.—Bids are asked by the city clerk until July 5 for constructing sewers in District No. 4.

DENVER, COLO.—The board of public works will begin the construction at once of the proposed sewer in North Denver, to cost about $4,600.

GARBAGE DISPOSAL—STREET CLEANING

MANCHESTER, N. H.—The street commissioners are urging the council to purchase a crematory to cost $16,000. John C. Bickford, of the board of health, may be addressed.

HOBOKEN, N. J.—Paul Breslau, Jersey City, N. J., has submitted a bid to remove the ashes and garbage of this city at $3,600 a year.——The council of Union Hill is said to have awarded a contract for removing the garbage, etc., to Peter Brady at $2,400 a year.

NEW ORLEANS, LA.—The Dixon Crematory Co. will begin the construction of its proposed plant at once. A number of wagons, barrels, etc., will be required at once, according to reports.

INDIANAPOLIS, IND.—Bids are asked until June 20 for furnishing street washers to be placed in the center of the streets; check, $100. M. A. Downing, Chn. Bd. Pub. Wks.

ALAMEDA, CAL.—The question of accepting a proposition from a company for a garbage disposal plant for this city is being considered by the council.

STREETS AND ROADS.

WATERVILLE, ME.—Reports state that one street with be paved at a cost of about $4,000.

LACONIA, N. H.—Bids are asked until June 27 for constructing the Weirs Boulevard. William Nelson, Cy. Engr., informs us that it will be 2½ miles long.

GLOUCESTER, MASS.—A hearing will be given by the board of aldermen June 21 on a proposition to lay out Riggs St. John J. Somes, Cy. Clk.

WORCESTER, MASS.—The council has adopted a resolution to construct asphalt pavement on Main St.; estimated cost, $17,224.

EAST HARTFORD, CONN.—Bids are asked until June 25 for macadamizing in Ellington St. Edw. E. King, First Selectman.

HARTFORD, CONN.—Bids are asked by the highway commissioners, Hartford, until June 22, for macadamizing and grading Main St., in the town of Old Saybrook.

MANCHESTER, CONN.—Bids are asked until June 28 for constructing a macadam road and laying about 1,000 lin. ft. of drain pipe. C. G. Watkins, First Selectman.

PLAINFIELD, CONN.—Bids are asked until June 25 for constructing three-fourths of a mile of macadam road, as stated in our advertising columns. C. E. Chandler & S. B. Palmer, Engrs., Norwich; Wm. H. Kenyon, First Selectman, Moosup.

VERNON, CONN.—Bids are asked until June 25 for building a macadam road. P. B. Leonard, First Selectman, Rockville.

WINDHAM, CONN.—Bids are asked until June 16 for furnishing and constructing 7,085 sq. ft. of cement walk. E. H. Holmes, First Selectman.

ALBANY, N. Y.—Bids are asked until June 20 for excavating, grading, brick paving, etc., in Van Woert St., First St. and Green St. Thos. L. Lanahan, Clk. Bd. Contract.

FULTON, N. Y.—O. C. Breed, Cy. Engr., writes us that he submitted plans to the council June 7 for about 17,000 sq. yds. of brick paving in five streets, estimated cost $46,600. The question will be voted upon at a special election.

JOHNSTOWN, N. Y.—Bids are asked until June 18 for brick paving and curbing, as stated in our advertising columns. A. A. Amidon, Chn. Bd. Pub. Wks.

LYONS, N. Y.—Bids are asked for 1,250 ft. of stone pavement, 28 ft. wide. Lincoln Bishop, Cy. Engr.

FREEHOLD, N. J.—Bids are asked until July 6 for constructing a gravel road 7,870 ft. long. John D. Honce, Clk. Bd. Freeholders.

HACKENSACK, N. J.—Bids are asked until June 20 for the purchase of $11,000 of street bonds. L. A. Campbell, Clk., 76 Main St.

NEWARK, N. J.—Bids are asked until June 23 for paving portions of six streets with sheet asphalt. M. F. McLaughlin, Supt. Pub. Wks.

JOHNSTOWN, PA.—An ordinance has been passed by the council for an appropriation of $25,000 for paving. Councilmen Bergman and Caples may be addressed.

LANCASTER, PA.—The street committee has adopted a resolution to pave portions of about six streets. Chairman Zook may be addressed.

LOCK HAVEN, PA.—Bids are asked until June 23 for furnishing the following materials: 9,000 sq. yds. of brick, 1,000 cu. yds. of sand, 1,400 lin. ft. of stone curb, and 1,000 bbls. of cement. Wm. Ely, Chn. Com.; S. M. McCormack, Cy. Clk.

MEADVILLE, PA.—Bids are asked until June 29 for brick paving, as stated in our advertising columns. W. A. Doane, Cy. Engr.; D. T. McKay, Jr. Cy. Clk.——A hearing was given June 15 on the question of paving Water St. and Meade Ave., including 1,625 lin. ft.

NANTICOKE, PA.—Bids are asked by the council until June 23 for paving Main St. and a portion of Market St., with brick.

PITTSBURG, PA.—Bids are asked until June 23 for grading, paving, curbing and constructing sewers in certain streets. E. M. Bigelow, Dir. Dept. Pub. Wks.

WASHINGTON, D. C.—Bids are asked until July 9 for paving certain streets with sheet asphalt and asphalt block, as stated in our advertising columns. Address the District Commissioners.

MANNINGTON, W. VA.—This place has voted to issue $20,000 in paving bonds. Work will soon be commenced on two miles of paving. Hix & Hoge, Engrs., Wheeling.

BLOUNTVILLE, TENN.—Bids are asked until June 18 for improving seven miles of road. Robert Gray, Engr.; Jas. A. Cole, Chn. County Comrs.

LOUISVILLE, KY.—Bids are asked by the board of public works until June 21 for paving a number of streets with asphalt.

CLEVELAND, O.—Bids are asked until July 7 for grading, curbing and brick paving in Duane St., from Franklin Ave. to Woodbine St. Geo. R. Warden, Dir. Pub. Wks.

HAMILTON, O.—C. E. Hemp, Comr. Pub. Improvements, writes us that this city will within the next year construct considerable asphalt and brick pavement; but has nothing under consideration at present.

LIMA, O.—Bids are asked until June 23 for brick paving, etc., in West Wayne St., and until July 7 for brick paving, etc., in West North St., as stated in our advertising columns. Robt. H. Gamble, Cy. Engr.; C. E. Lynch, Cy. Clk.

SALEM, O.—Bids are asked until July 11 for asphalt and brick paving, according to reports. F. W. Allison, Cy. Clk.

TOLEDO, O.—Bids are asked until July 11 for macadamizing and block paving and for furnishing the material. L. P. Harris, Cy. Clk.

WAPAKONETA, O.—Bids are asked until July 9 for grading, graveling, masonry and constructing bridges on the Bowers and Moyer pike roads. Samuel Craig, County Engr.

GREENCASTLE, IND.—Bids are asked until June 26 for constructing about 12 miles of macadam road, according to reports. James E. Talbot, Chn. County Comrs.

CADILLAC, MICH.—Bids are asked until June 21 for improving East Pine St., from Mitchell St. to Lincoln St. W. J. Smith, Cy. Clk.

DETROIT, MICH.—Bids are asked until June 16 for furnishing the material and for constructing cedar block pavement, curb, gutter, etc., in portions of five streets. D. W. H. Moreland, Pres. Bd. Pub. Wks.

LA SALLE, ILL.—A contract has been awarded to Charley Bros., La Salle, at $64,204, for paving five streets with brick.

BELLEVILLE, ILL.—An ordinance is before the council for the paving of five blocks with brick; estimated cost, $16,675.

CANTON, ILL.—Eugene Whiting, Cy. Clk., informs us that a contract will be let about the middle of July for about 9,300 sq. yds. of brick paving. Geo. W. Chandler, Engr., Canton.

GALESBURG, ILL.—The question of constructing about 2½ miles of brick paving is being considered, according to reports. M. J. Blanding, Cy. Engr.

PANA, ILL.—Bids are asked until June 29 for paving 11,000 sq. yds. with brick; estimated cost, $16,000. E. G. Dickenson, Des. Engr., Decatur; Warren Penwell, Mayor.

PEORIA, ILL.—Asphalt pavement will be constructed in North St., estimated cost $23,702, and Randolph St., macadamized at a cost of about $7,110, according to reports. A. D. Thompson, Cy. Engr.; W. O. Clark, Comr. Pub. Wks.

TORONTO, ONT.—Bids are asked until June 20 for paving McCall St. with cedar blocks, from Queen St. to College St. John Shaw, Mayor.——The Warren-Scharf Asphalt Paving Co., New York, has been awarded a contract at $15,065, for paving in Jameson Ave.

QUEBEC, QUE.—M. Fitzgerald, Sherbrooke, has been awarded a contract to furnish 200 car loads of granite blocks, to be used in paving the streets.

MANUFACTURING PLANTS.

BARRE, VT.—A fire in this city June 13 destroyed the large granite plant of Mackie, Hussey & Co., causing a total loss of about $75,000; insurance, $28,000. W. E. Hussey, of Utica, N. Y., is a member of the firm.

ORANGE, MASS.—The factory of the Orange Furniture Co. was destroyed by fire, June 10, causing a reported loss of $30,000. Mgr., Frederick Lord.

EAST BRAINTREE, MASS.—Frank Hendry, Secy. Victor Metals & Foundry Co., of Weymouth, Mass., informs us that everything has been purchased for the company's new plant at this place, except some necessary metal work. The company manufacturers the Victor non-corrosive, anti-friction, manganese bronze and brass castings.

BRIDGEPORT, CONN.—We are informed that William Waterhouse, Seaview Ave., Bridgeport, has been awarded the contract for erecting the addition to the plant of the Hammond Co. Arch., Jos. A. O'Brien, 115 State St.

NEW YORK, N. Y.—John H. Deeves & Bro., 287 4th Ave., have been awarded the general contract for erecting a factory building at Willow Ave. and 137th St., for Einstein, Wolff & Co., 443 Broadway, to cost about $75,000. Archs., George P. Chappell, 24 State St.

NIAGARA FALLS, N. Y.—It is reported that the Mathieson Alkali Works will double the capacity of its present plant; the additions will cost $40,000.——The Carborundum Co. will build a brick factory to cost $23,000.

SCHENECTADY, N. Y.—John Turner, of Amsterdam, N. Y., has been awarded the contract for the mason and carpenter work for a new machine shop, 653 × 166 ft., to be erected by the General Electric Co.

NATIONAL SOLDIERS' HOME, VA.—Bids are asked until June 22 for furnishing labor and material for the extension of the Pontifex Ice Machine plant at Southern Branch, National Home for Disabled Volunteer Soldiers. Treas., William Thompson.

RICHMOND, VA.—The Southern Fertilizer Works, P. O. Box 285, Richmond, informs us that it is erecting its new building without outside assistance. A 100-HP. boiler, an 80 to 100-HP. engine, fertilizer machinery and an electric light equipment for the factory will be installed.

DUBUQUE, IA.—J. H. Rhomberg, Pres. Dubuque Star Brewing Co., of Dubuque, informs us that bids will soon be received for the proposed brewing plant in this city, the buildings for which will cost about $75,000, and the equipment $50,000. Arch., Fred. Rantert, 90 Metropolitan Block, Chicago, Ill.

OELWEIN, IA.—Tracy Lyon, Master Mechanic, Chicago Great Western Ry. Co., St. Paul, Minn., informs us that it is still undecided when bids will be received for the equipment of the proposed locomotive and car shops to be built in this city for the Chicago Great Western by Hoff Bros., of Minneapolis. The total estimated cost of buildings and equipment is $250,000, and of the superstructure alone, $146,000. Arch., C. A. Reed, St. Paul, Minn.

MILLBANK, S. DAK.—C. W. Martens, Secy. Farmers' Elevator Co., of Millbank, informs us that Cleveland & Son, of this city, were awarded the contract, June 1, for erecting an equipping a 15,000-bushel grain elevator for this company, at $3,450. Archs., Tromanhauser Bros., New York Life Bldg., Minneapolis, Minn.

GAS PLANTS.

PHILADELPHIA, PA.—The United Gas Improvement Co. will construct a new retort house at the Point Breeze works to cost about $75,000.——The Philadelphia Oil Refining Co.'s plant at Point Breeze has been damaged by fire.

IRONTON, O.—Bids are asked until July 14 for furnishing and lighting the city with about 300 gas lamps of 20-c. p. Geo. H. Davies Cy. Clk.

MANSFIELD, O.—Bids are asked until June 30 for furnishing and maintaining about 200 gasoline vapor lights, not less than 14 c. p., and about 10 naphtha lights, not less than 80 c. p. Geo. Wagner, Chn. Com.

NEW COMPANIES.—Eastern Solar Gas Machine Co., New York; $100,000; to manufacture machinery for the use of acetylene gas; Walter C. Butler, Orange, N. J.; John U. May, Arthur J. Stewart, Cleveland, O.; J. Severin Charleson, Calvin Tompkins, John De Witt Warner, Chas. A. Wimpfheimer, New York.

Elk Pipe Line Co., Ridgeway, Pa.; $15,000, with $1,500 paid in; to deal in and supply natural gas throughout Elk county; F. E. Clawson, W. E. Bayless, Treas., Glen Hazel, Pa.; M. F. Quinn, John J. Henry, Philadelphia; C. F. Wright, Susquehanna, Pa.

City Gas Co., Staunton, Va.; $200,000, with $10,000 paid in; to operate gas and electric works, railways, etc.; R. D. Apperson R. D. McCue, Staunton; Henry Marquand, New York city; L. C. Harris, Forrest Hill, N. J.; F. B. Poor, Hackensack, N. J.

Commercial Travelers' Oil Co., Pittsburg, Pa.; $50,000, with $100 paid in; to drill for oil and gas; J. M. Crozier, Pittsburg, Pa.; G. R. Scatterday, Wheeling, W. Va.; Henry Marshall, C. H. Kelly, Ed. Gregg, Allegheny, Pa.

MISCELLANEOUS CONTRACTS.

DREDGING.—Sheboygan, Wis.—The council has appropriated $2,000 for dredging the river above Eighth St. bridge.

BONDS.—Toledo, O.—Bids are asked until July 1 for the purchase of $50,000 of 4% fire department bonds. Geo. V. Roulet, Cy. Audr.

BONDS.—Bird Island, Minn.—Bids are asked until June 25 for the purchase of $12,000 of 5% bonds. L. E. Sherwood, Village Recdr.

DITCH.—Wapakoneta, O.—Bids are asked until June 18 for constructing two ditches; estimated cost, $1,246. Samuel Craig, County Engr.

FIRE ENGINE.—Savannah, Ga.—The council has appropriated $6,000 for the purchase of a fire engine and for improving the water-works.

FIRE EXTINGUISHERS.—Buffalo, N. Y.—The board of public works will ask for bids for fire extinguishers to be used in all of the public schools.

GUN CARRIAGES.—Washington, D. C.—Bids are asked until July 2 for furnishing about 19 12-in. disappearing gun carriages. Gen. D. W. Flagler, Ch. of Ordnance.

TOW BOAT.—Cincinnati, O.—Bids are asked until July 7 for furnishing the services of a tow boat for the Ohio River dredges. Maj. W. H. Bixby, U. S. Engr., Cincinnati.

CITY SUPPLIES.—Buffalo, N. Y.—Bids will soon be asked by the board of public works for furnishing iron pipe, heaters, purifiers, two hoisting engines, cables, etc.

PARK WORK.—San Francisco, Cal.—Reports state that a plan is being considered by the park commissioners for the improvement of Golden Gate Park, to cost about $349,200.

FIRE ENGINES.—Cognac, France.—It is reported that several cities in this consular district contemplate the purchase of steam fire engines. Address M. E. Jouard, 1 Rue Louise de Savoie, Cognac, Charente, France.

LEVEE WORK.—Memphis, Tenn.—Bids are asked until July 6 for constructing about 2,321,000 cu. yds. of earthwork along the Mississippi River, as stated in our advertising columns. Capt. H. C. Newcomer, U. S. Engr., Equitable Bldg., Memphis.

DREDGING.—Boston, Mass.—Bids are asked until June 28 for the dredging and removal of about 129,100 cu. yds. of material, in South Bay, as stated in our advertising columns. Woodward Emery, Chn. Harbor and Land Comrs., State House, Boston.

DRAINAGE.—Cornwall, Ont.—Bids are asked until July 5 for the draining, widening, etc., of the Payne River, in the township of Finch; estimated cost, $9,249; and until July 7 for drainage work in the Payne River, in Finch and Roxborough townships; estimated cost, $12,629. T. H. Wiggins, Engr., Glengarry Block, Cornwall.

REMOVING WRECK.—Wilmington, Del.—The following bids were received June 7 for removing the wreck of a bridge, as advertised in Engineering News. Wm. F. Smith, U. S. Agent, Wilmington:

Louis E. Broom, Baltimore, Md.	$800
Chas. W. Johnston, Philadelphia, Pa.	745
Jno. C. Ross, Lewes, Del.	995

DREDGING.—Southampton, N. Y.—The following bids were received June 8 for dredging the canal between Shinnecock and Great South Bay; advertised in Engineering News. Geo. W. Aldridge, Supt. Bd. Pub. Wks.:

Leck & Field, Islip (L. I.), N. Y.	$7,395
E. W. Wicks, Bay Shore (L. I.), N. Y. (accepted)	5,440
P. J. Brummelcamp, Syracuse, N. Y.	6,120
Willard Johnson, Fulton, N. Y.	6,800

CONTRACT PRICES.

WATER PIPE.—Kansas City, Mo.—We are informed by R. M. Godfrey, Secy. Dept. Pub. Wks., that the following bids were received June 7 for furnishing water pipe, as advertised in Engineering News; the 6-in. pipe weighs 33 lbs. a ft., and 200 to 500 tons are wanted; the 4-in. weighs 22 lbs. a ft., and one carload is wanted:

Bidder.	Pipe 6-in.	Pipe 4-in.
Am. Pipe & F'dry Co., Chattanooga, Tenn.	$16.90	$16.90
D. Long & Co., Louisville, Ky.	16.97	16.97
Shickle, Harrison, Howard & Co.*	17.50	17.50
Ohio Pipe Co., Columbus, O.	17.75	18.75

*St. Louis, Mo.

PAVING BRICK.—Cambridge, O.—The following bids were received June 4 for furnishing paving brick, as advertised in Engineering News; O. M. Hoge, Cy. Engr.:

Bidder.	Pvg brick. 21,483 sq. yds.	Total.
John C. Bolen, Zanesville, O.	$0.50	$10,742
Chas. J. Deckman, Malvern, O.	.46½	9,990
T. B. Townsend Brk Co., Zanesville, O.	.44	9,453
The Harris Brick Co., Zanesville, O.	.47	10,097

LIGHTING.—Elmira, N. Y.—M. H. Murphy, Cy. Clk., writes us that the mayor has been authorized to enter into a contract with the Elmira Illuminating Co. for furnishing 300 arc lights of 1,200 c. p. to burn all night at $80 a light a year for five years.

GRADING.—Ashfield, Mass.—We are informed that the following bids were received by the Massachusetts State Highway Commission May 26 for grading a highway in Ashfield and the bid of Jos. D. Gennaro accepted; A. B. Fletcher, Secy.:

Bids Received at Ashfield, Mass., May 26, for Grading a Highway.

Quantities.		Mignault & McGram, So. Framingham.	Hale & Whipple, Buzzard's Bay.	Keene & Foster, Boston.	F. E. Ellis, Melrose.	Tuttle & Edgerly, Swampscott.	Jos. D. Gennaro, Boston.
Excavation	10,000 cu. yds.	$0.24	$0.23	$0.28	$0.35	$0.20	$0.22
Excavation, borrow	1,000 " "	.40	.28	.30	.35	.20	.26
Ledge excavation	1,900 " "	1.25	1.40	1.35	1.50	.80	1.00
Rubble masonry laid dry	730 " "	3.00	2.50	4.75	5.00	4.50	3.50
Rubble masonry laid in cement	144 " "	5.75	4.50	9.00	9.00	7.00	6.00
12-in. vitrified clay pipe	50 lin. ft.	.65	.65	.75	.75	.65	.50
Fencing used as guard rail	3,290 " "	.16	.15	.15	.25	.15	.15
Side drains	1,660 " "	.33	...	.45	.55	.35	.40
Stone monuments	38 each	1.50	1.50	2.00	2.00	2.00	1.50
Finishing between limits	Labor pr hour.	.20	.20	.25	.22	.20	.20
	Double teams	.50	.50	.50	.50	.50	.50
	Single teams	.35	.30	.35	.35	.35	.35
Total		$9,357	$8,296	$11,783	$13,495	$9,196	$9,019

PAVING AND SEWERS.—Freeport, Pa.—We are informed that the following bids were received June 6 for the improvement of 5th St.: Engr., Robt. T. Wilson, Saltsburg, Pa.; bids are for vitrified brick per M., f. o. b., Freeport:

Items.		Sweeney & Houston, Pittsburg, Pa.	Goetze & Marshall, Tarentum, Pa.	J. L. Long, Freeport, Pa.
Grading, a cu. yd.		$0.21	$0.21	$0.23
6-in. curb, a lin. ft.		.38	.37	.37
Resetting old curb		.15	.12	.06
Paving	Park brick a sq. yd.	.92	.91	.93
	Mack brick a sq. yd.	.92	.89	.98
	Kounts brk., a sq. yd.	.82	.87	.83
Sewers	20-in. pipe, in place	.43	.63	.85
	15-in. pipe, in place	.40	.63	.65
	Inlets, each	15.60	23.00	15.50

GRADING.—Seaside Park, N. J.—We are informed by Thos. S. Haines, Engr. and Surv., Burlington, N. J., that the following bids were received May 31 for 112,500 cu. yds. of grading at Seaside Park:

Bidder.	A cu. yd., cts.	Total.
B. F. Sweeten & Son, Camden, N. J.	10⅝	$11,742
Chas. A. Sims & Co., Philadelphia	12½	14,061
Sherman B. Ovlatt, Sea Grit, N. J.	13⅜	14,990
G. S. W. Brubaker, Philadelphia	13⅞	15,612
John Stabler, Philadelphia	14	15,750
Burr, Alcott & Mathis, Mt. Holly, N. J.	15½	17,398
A. B. Nelson, Trenton, N. J.	17.3	19,500

SEWERS.—Cambridge, O.—O. M. Hoge, Cy. Engr., informs us that the following bids were received June 4 for furnishing the material and for constructing sewers, as advertised in Engineering News; the contract was awarded to Adams Bros.:

Bids Received at Cambridge, O., June 4, for Constructing Sewers.

Quantities.		McCourt & Davidson, Akron, O.	Greenville Cnstn Co., Greenville, O.	H. Gantz, Columbus, O.	Kalamazoo Con. Co., Kalamazoo, Mich.	J. N. Kissner, Coshocton, O.	Adams Bros., Zanesville, O.	Geo. T. Hammond, Uhrichsville, O.
Furnishing and laying	18-in. pipe	2,700 lin. ft.	$0.31	$0.33	$0.35	$0.30	$0.34	$0.40
	15-in. "	1,500 " "	.26	.26	.28	.17	.28	.24½	.29
	12-in. "	275 " "	.15	.15	.20	.12	.22	.19	.18
	10-in. "	1,650 " "	.12	.13	.15	.10	.19	.16	.13
	8-in. "	3,770 " "	.10	.10	.12½	.08½	.13	.12	.10
	6-in. service pipe	7,248 " "	.06	.06	.10	.07	.10	.07	.09
Excavation and back filling.	Under 6 ft.	1,880 " "	.26	.30	.25	.15	.17	.15	.22
	6 to 8 ft.	1,214 " "	.32	.33	.30	.21	.23	.20	.22
	8 " 10 "	2,541 " "	.46	.40	.35	.28	.33	.26	.34
	10 " 12 "	2,175 " "	.53	.47	.39	.38	.46	.36	.34
	12 " 14 "	1,000 " "	.65	.56	.55	.53	.54	.40	.48
	14 " 16 "	770 " "	.75	.70	.65	.75	.62	.46	.73
	16 " 18 "	400 " "	1.25	1.00	.75	1.00	.75	.60	.92
	6-in. service pipe	7,248 " "	.30	.30	.20	.30	.23	.16	.22
Submerged outlet complete			1,075.00	745.00	600.00	1,250.00	454.00	400.00	634.00
Tunneling		160 lin. ft.	6.50	4.50	2.00	2.75	1.00	2.50	.93
Laying 18-in. c.-i. pipe		240 " "	.50	.50	.25	.40	.40	.40	.45
Furnishing 18-in. c.-i. pipe		18 tons	22.00	35.00	25.00	20.00	18.00	19.00	19.50
Rock excavation		500 cu. yds.	2.75	3.50	2.50	4.80	1.50	1.50	.90
Sanitary manholes		21 each	26.00	37.50	35.00	30.00	32.00	30.00	28.00
Storm manholes		4 "	16.00	40.00	25.00	33.00	32.00	30.00	33.00
Lamphole			2.00	10.00	4.00	10.00	7.00	4.00	6.00
Flushtanks		2 each	60.00	75.00	50.00	75.00	45.00	50.00	39.00
Total			$13,992	$14,028	$11,644	$13,316	$11,025	$9,416	$10,593

BRICK PAVING.—Hornellsville, N. Y.—We are informed that the following bids were received June 6 for brick paving; the contract was awarded James McCloud & Co.; F. W. Dalrymple, Cy. Engr.:

Quantities.		Jas. McCloud & Co., Columbus, O.	Jamestown Constn Co, Jamestown, N.Y.
Excavation	2,100 cu. yds.	$0.20	$0.20
Pavement: On concrete	5,480 sq. yds.	1.30	1.33
On sand foundation	480 " "	1.25	1.20
Curb	1,830 lin. ft.	.35	.41
Circular	110 " "	.55	.50
Reset	200 " "	.15	.10
4-in. drain tile	1,800 " "	.06	.05
Total		$8,983	$9,200

BRICK PAVING.—Dorrancetown, Pa.—W. B. Rutler, Engr., informs us that the following bids were received June 1 for certain brick paving: the contract was awarded the Alcatraz Co., for Mack brick:

Bids Received at Dorrancetown, Pa., June 1, for Brick Paving.

Bidder.	Porter W.-c.	Porter Rep.	Porter B'lk.	Mack W.-c.	Mack Rep.	Mack B'lk.	Mack D.-R.	Park W.-c.	Park Rep.	Park B'lk.	Clrf., ld. B'k.	Clrf., ld. B'lk.
Gravel foundation.												
Alcatraz Co.	$1.43	$1.47	$1.47	$1.49	$1.55	$1.55	$1.55	$1.33	$1.36	$1.36	$1.37	$1.37
Erbeck Bros.	1.45	1.51	1.51	1.51	1.60	1.59	....	1.42	1.48	1.50	1.46	1.48
German Rock	1.60	1.63	1.63	1.65	1.75	1.72	1.76	1.52	1.57	1.57	1.55	1.55
Keystone Co.	....	....	....	1.50	1.57	1.57	....	....	....	....	....	....
E. H. Post	1.60	1.65	1.65	1.64	1.78	1.74	1.79	1.58	1.64	1.64	....	....
Kuss & Co.	....	....	....	1.65	1.75	1.72	....	....	....	....	1.58	1.58
A. H. Coon Co.	....	....	....	1.51	1.60	1.60	1.62	....	....	....	....	1.42
Lindsay	....	....	....	1.73	1.84	1.81	1.85	....	....	....	....	....
Concrete foundation.												
Alcatraz Co.	1.57	1.61	1.61	1.63	1.69	1.69	1.69	1.47	1.50	1.50	1.51	1.51
Erbeck Bros.	1.72	1.77	1.77	1.78	1.87	1.86	....	1.69	1.77	1.77	1.73	1.75
German Rock	1.89	1.93	1.93	1.95	2.05	2.02	2.06	1.82	1.87	1.87	1.85	1.85
Keystone Co.	....	....	....	1.89	1.90	1.93	....	....	....	....	....	....

WATER METERS.—Chicago, Ill.—It is stated that the following contract has been let by L. E. McGann, Comr. Pub. Wks., to the Pittsburg Meter Co. to supply the city with water meters this year. The contract calls for 1,200 meters at a cost of $70,000. The firm agrees to keep the meters in repair for a term of years. The guaranty on the small-sized meters is for five years and for the large ones two years. The prices paid are: ⅝-in., $6.95; ¾-in., $10; 1-in., $12; 1½ ins., $25; 2 ins., $40; 3 ins., $80; 4 ins., $160; 6 ins., $325.

MACADAM ROAD.—Hancock, Mass.—A. B. Fletcher, Secy. State Highway Comn., writes us that the following bids were received June 9 for constructing a road in Hancock:

Bids Received at Hancock, Mass., June 9, for Constructing a Macadam Road.

Quantities.		Harrias & Letteney, Boston, (accepted.)	Mignault & McGrain, South Framingham, Mass.	Tuttle & Edgerly, Swampscott, Mass.	Myron R. Fisk, Huntington, Mass.	Haynes & Lake, South Framingham, Mass.	Lathrop & Shea, Cobalt, Conn.
Excavation	2,135 cu. yds.	$0.28	$0.28	$0.35	$0.40	$0.37	$0.55
" borrow	200 " "	.35	.33	.35	.40	.50	.55
Rubble masonry laid dry	150 " "	3.50	4.00	4.50	5.00	2.98	6.00
" " " in cement	47 " "	4.75	7.00	7.00	5.00	5.00	7.00
Gravel	1,400 " "	.58	.50	1.00	1.00	1.44	1.40
Fencing used as guard rail	500 lin. ft.	.15	.15	.20	.15	.17	.18
Side drains	3,000 " "	.22	.25	.45	.50	.40	.45
Finishing between limits	Labor, per hr.	.19	.20	.20	.15	.18	.18
	Double teams.	.50	.50	.50	.40	.50	.45
	Single teams.	.40	.35	.35	.30	.30	.30
Stone monuments	10 each	1.00	2.00	1.50	1.50	1.00	2.00
Total		$2,973	$3,138	$4,686	$4,909	$4,883	$5,933

BRICK PAVING.—Wilmington, Del.—The following contracts were let by the street and sewer department June 1 for brick paving in certain streets: Athens Brick Co., 1,139 sq. yds., 90 cts. a sq. yd.; Geo. H. McCall Co., Montello block, 3,480 yds., 84 cts.; J. M. Solomon, Reading shale, 7,185 yds., 81 cts.; McMahon, Porter & Co., fire brick, 1,500 yds., 85 cts.; Townsend Block & Contracting Co., 3,150 yds., 97 cts.; Charles Warner Co., 4,946 yds., 97 cts.

INDUSTRIAL NOTES.

THE WALKER CO., Cleveland, O., is said to have received an order for a 4,000-HP. direct-current dynamo, weighing over 300,000 lbs., for the Boston Elevated Ry.

THE COOK LOCOMOTIVE & MACHINE CO., Paterson, N. J., is reported to be building two 10-wheel locomotives for the St. Louis, Peoria & Northern Ry., weighing 120,000 lbs. each.

THE HERSEY MFG. CO., South Boston, Mass., manufacturers of water meters, has appointed Mr. Fred. A. Smith to represent its meter department in New York city, with offices at 278 Pearl St.

THE NATIONAL FOUNDRY & PIPE WORKS, LTD., Scottdale, Pa., is reported to have a contract from the Londonderry Iron Co., Ltd., Londonderry, N. S., for about 1,000 tons of 12-in. and 14-in. cast-iron water pipe for the city of St. John, N. B.

THE DIAMOND DRILL & MACHINE CO., Birdsborough, Pa., is reported to be enlarging its plant in order to facilitate the quick construction of 50 Brown coast defense guns recently ordered by the United States government, at a cost of $500,000.

THE EYELESS TOOL CO., 26 Cortlandt St., New York, reports having received an order June 11 at 2.30 p. m., for a car load of eyeless picks to be sent to Port Tampa, Fla., for the United States Army, and that the goods were packed and delivered and on their way South, over the Pennsylvania R. R., at 9 p. m. the same day.

THE MURRAY IRON WORKS CO., Burlington, Ia., is adding a wing to its boiler shops, to be fitted with a traveling crane. It will add considerably to the capacity for turning out steam boilers.—The power used in the Trans-Mississippi Exposition, at Omaha, Neb., is furnished by a Sioux-Corliss engine built by this company.

THE PITTSBURG BRIDGE CO., Pittsburg, through its New England agents, Collins & Norton, Springfield, Mass., have received a contract from the town of Chesterfield, Mass., for two steel highway bridges on the old turnpike between Chesterfield and Williamsburg, Mass., in addition to the contracts for seven other bridges, noted last week.

THE BERLIN IRON BRIDGE CO., East Berlin, Conn., is erecting a power house, 45 × 84 ft., for the Portchester St. Ry. Co., of Port Chester, N. Y., consisting of boiler, engine and dynamo rooms. The building has brick side walls and steel columns, supporting a steel truss roof. In the engine room is a traveling crane arranged to readily lift and move any part of the engines or dynamos. The building is a substantial, well designed, modern station in every respect.

THE RAILWAY CYCLE MFG. CO., Hagerstown, Ind., has received an order, by cable, from Russia, for a number of double-seated Hartley & Teeter inspection cars, and within the last few days has shipped good-sized orders to China, Mexico, Peru and Germany. The domestic trade is also satisfactory, and the prospects for a continuance of this condition are good.

NEW COMPANIES.—Almyra Telephone Co., Selma, N. C.; $5,000; Will A. Wynne and W. W. Wynne, Raleigh, N. C.; N. E. Edgerton, of Selma.

Superheated Water Engine Co., New York; $2,000,000, commencing with $70; to manufacture and introduce an impact engine to be operated by superheated water, or steam, compressed air, etc.; Wm. E. Prall, H. L. Sprague, Charles McVeagh, H. Van Sinderen and A. L. Meyer, all of New York.

American Pipe & Foundry Co., Chattanooga, Tenn.; $1,000,000, commencing with $70; to manufacture cast-iron pipes and other iron castings; J. W. Harrison, St. Louis, Mo.; F. B. Nichols, Bessemer, Ala.; James Bowron, Birmingham, Ala.; D. Giles, Chattanooga; F. C. Miller, Newport, Ky.

American Vibrophone Co., New York; $1,000,000, commencing with $500; to manufacture and deal in mechanical specialties; J. R. Lowther, C. W. Youngman, James Chapman, H. I. Church and A. C. McKinley, all of New York.

J. E. Forsyth Co., Chicago, Ill.; $1,000,000, commencing with $50; to manufacture air-brakes, car couplers, etc.; W. C. Leonard, B. B. Hall, H. H. White, P. C. Russell and W. A. Jones, all of Charleston, W. Va.

Hathaway Mining Co., New York; $200,000, commencing with $50; to manufacture and sell explosive compounds, and to do a general mining business; D. M. Black, J. Hatcher, N. J. Hatcher, A. C. Gunther and W. C. Snell, all of Charleston, W. Va.

American Railroad Mechanical Supply Co., New York; $10,000, commencing with $50; C. B. Beckwith, Morristown, N. J.; Wm. E. Orr, E. D. Worcester, Jr., and F. O. Beach, New York; H. M. Day, Newark, N. J.

Incandescent Light & Stove Co., Cincinnati, O.; $300,000, with all paid in; to manufacture and sell gasoline stoves of every description; James Stubbers, Covington, Ky.; Geo. B. Murrell, Newport, Ky.; Wm. D. Beggs, Hartwell, O.; H. H. Stubbers, Cincinnati, O.; F. A. Wernsing, Bellevue, Ky.

Milliken & French Torpedo Co., Sistersville, W. Va.; $1,000,000, commencing with $2,000; to manufacture nitroglycerine, dynamite and other explosives; J. P. Milliken and F. F. French, McDonald, Pa.; Thomas Gartlan, M. Keating and R. L. Gregory, Sistersville.

R. K. Griffin & Sons Co., Wheeling, W. Va.; $50,000, commencing with $50; to deal in agricultural machinery, supplies, etc.; C. B. Giffen, R. K. Giffen, Ella B. Giffen, H. C. Ogden and Agnes J. Brown, Wheeling.

National Machine Co., Philadelphia, Pa.; $100,000, commencing with $150; to manufacture and sell sewing machines; T. J. Sherbome, Jr., J. C. Herr and C. S. Hinchman, Philadelphia; Exra Bowen, Burlington, N. J.; Albin Garrett, Westtown, Pa.

Carbide Apparatus Co., Philadelphia, Pa.; $100,000, commencing with $100; E. C. Napheys, Wm. J. Murdock, E. J. Dolan, E. V. Sudell and E. List, of Philadelphia.

Farragut Building Co., Washington, D. C., and Boston, Mass.; $300,000, commencing with $1,000; to do a builders' and contractors' business; W. V. Berry and B. S. Minor, Washington; A. J. Kinsbury, A. F. Rosenheim and E. M. Willoughby, of Boston.

Third-Rail Block System Co., East Orange, N. J.; $100,000; to manufacture a patented third-rail for trolley roads; Louis E. Walkins, and J. Warren Wiley, Springfield, Mass.; C. D. Chase, Northampton, Mass.; Howard K. Wood, East Orange, N. J.

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